



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department Of Roads
Development Cooperation Implementation Division
Strategic Road Connectivity & Trade Improvement Project
(SRCTIP)

**Detailed Design of Upgradation of Kamala- Dhalkebar- Pathlaiya
Road Section (130km) of Mahendra ighway and Bridges**

Final Design Report
Volume IV
Design Report & Drawing of Bridges

Bridge Name- Godari
Volume-2
Detailed Drawing

April,2023

Joint Venture Of:

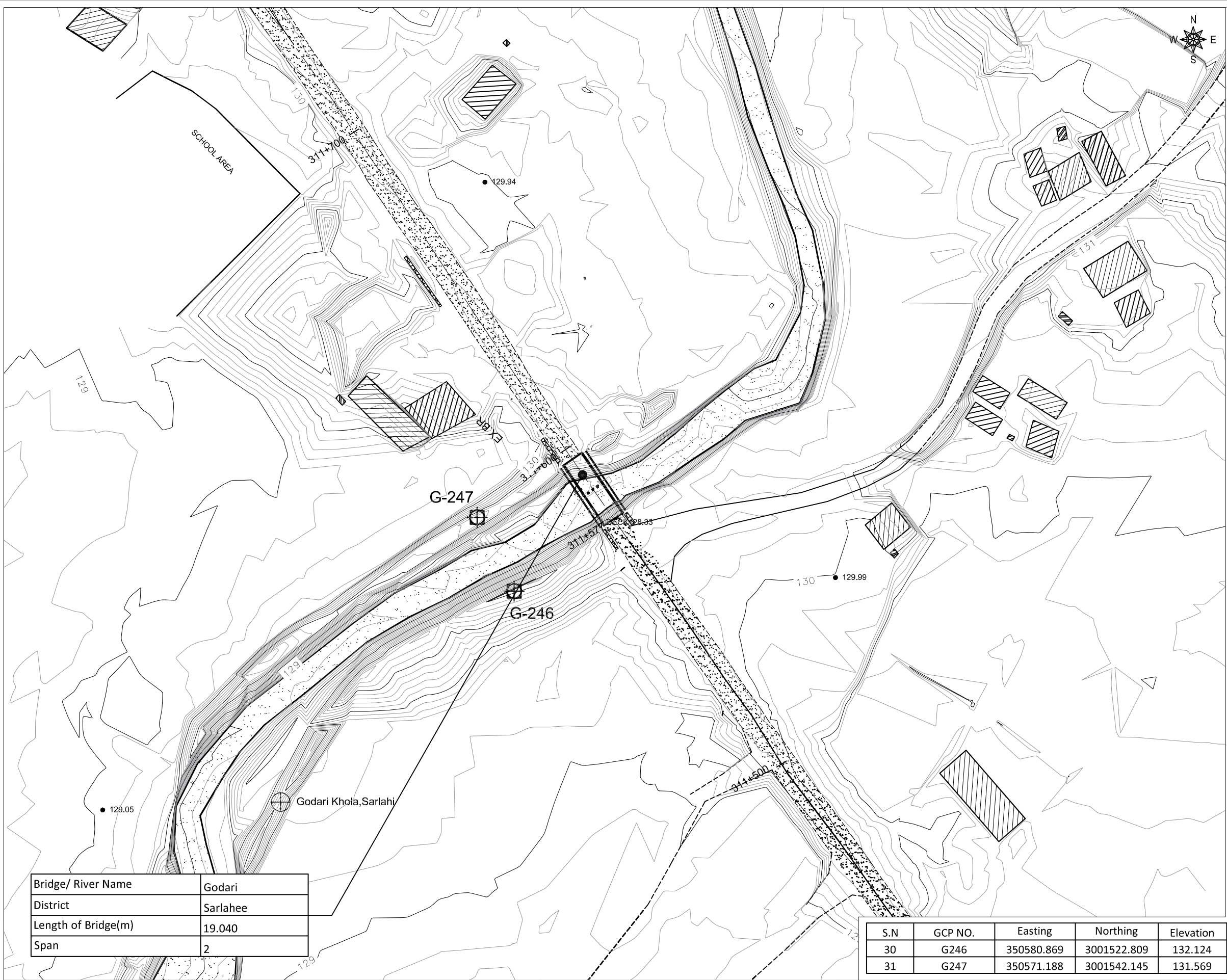
eptisa EPTISA Servicios De Ingenieria
Madrid, Spain

STUP STUP Consultants Private Limited
India

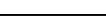
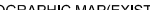
In Association With
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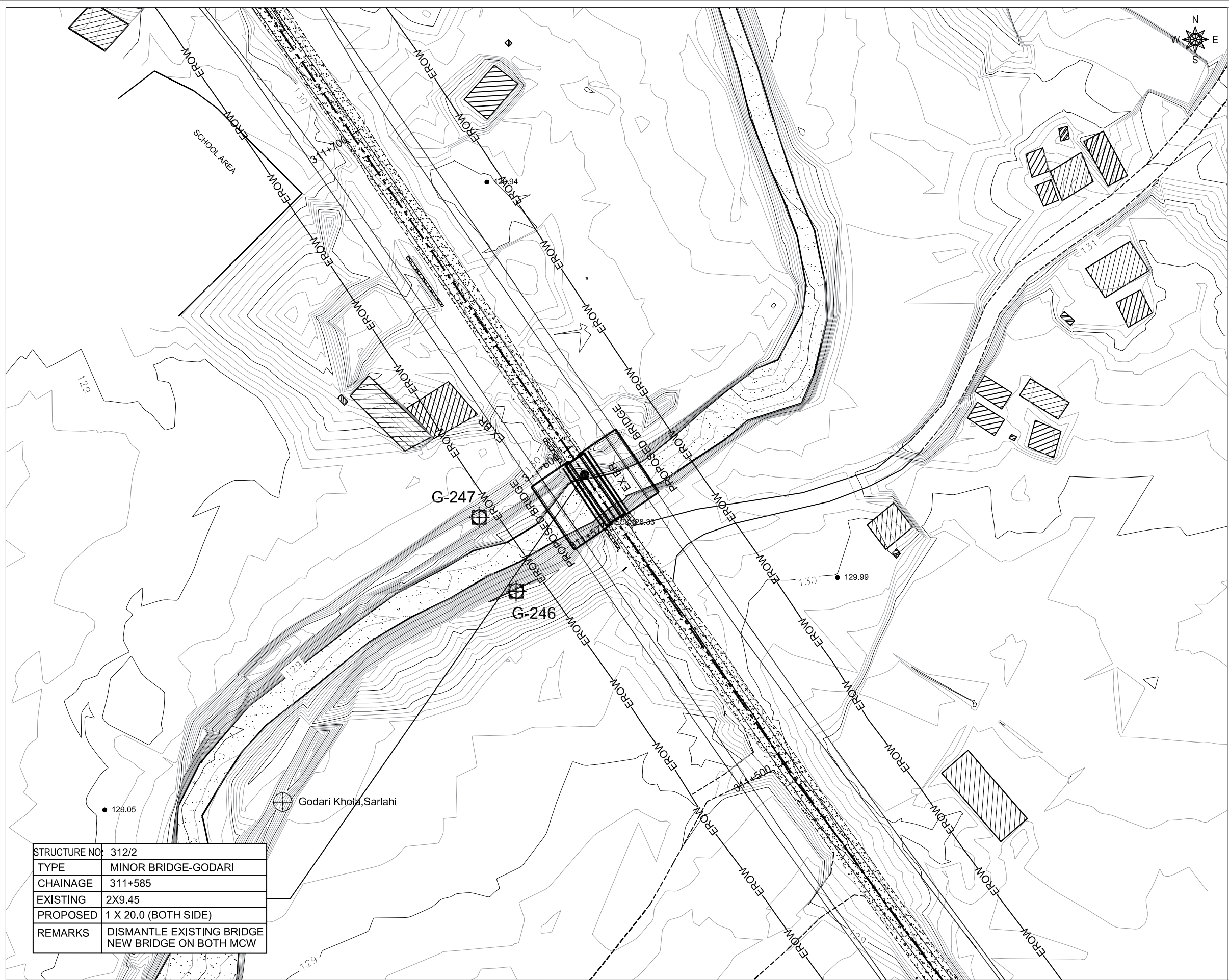
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DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
MAIN FOOT TRAIL		ANIMAL FARM	
PLACE NAME		BAMBOO	
POLICE STATION		BIO GAS	
PETROL PUMP		BUS WAITING STATION	
Pond/ Water Body		BRIDGE	
POULTRY FARM		CONTOUR	
PROPERTY BOUNDARY		CANAL	
ROAD INFORMATION BOARD		CULVERT	
RIVER		CONTROL POINT (G)	
SPOT HEIGHT		CRUSHER	
SHED		DELINETOR	
SAFTY TANK		ELECTRIC POLE	
SCHOOL		FACTORY	
STREET LIGHT		FEEDAR ROAD	
TAP		FISH FARM	
TEMPORARY HOUSE		FLOW DIRECTION	
TREE		GABION WALL	
TRANSMISSION LINE TOWER		HOSPITAL	
WELL		HAND PUMP	
TEMPLE		HOUSE	
CGI SHEET HOUSE		HOADING BOARD	
TOILET		CARRIAGE WAY	
WOODEN HOUSE		HUT	
WATER TANK		INDEX CONTOUR	
TRANSFORMER		KILOMETER POST	
SHOULDER		MONASTERY	

EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Designed By	Mr. R.A.		Drawing Name	Scale:	Date:
	Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP)	Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of			Mr. S.M.				
				 EPTISA Servicios De Ingeniera Madrid, Spain	 STUP Consultants Private Limited Kolkatta, India	In Association With	Udaya Consultancy, Geocom International, Sundar Kirti Consultant and Rays Consultant Private Limited	Mr. H.B.		KDP/DPR/STR/BR/GODARI/DD- 02	
				Sheet No. 1/1							



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TOILET		CARRIAGE WAY	
WOODEN HOUSE		HUT	
WATER TANK		INDEX CONTOUR	
TRANSFORMER		KILOMETER POST	
SHOULDER		MONASTERY	

STRUCTURE NO:	312/2
TYPE	MINOR BRIDGE-GODARI
CHAINAGE	311+585
EXISTING	2X9.45
PROPOSED	1 X 20.0 (BOTH SIDE)
REMARKS	DISMANTLE EXISTING BRIDGE NEW BRIDGE ON BOTH MCW

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			Checked By Mr. S.M. Signature			
			Approved By Mr. H.B. Signature			

A. GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DIMENSIONS ARE NOT TO BE SCALED.
3. THE LAYOUT OF THE BRIDGE/CULVERT SHALL BE SET AS PER RELEVANT HIGHWAY PLAN AND PROFILE DRAWING.
4. THE FORMATION LEVEL GIVEN IN THIS DRAWING SHALL BE VERIFIED FROM THE RELEVANT HIGHWAY DRAWING. IN CASE OF ANY DISCREPANCY THE HIGHWAY DRAWING SHALL BE CONSIDERED CORRECT.

B. DESIGN CRITERIA

1. THE DESIGN HAS BEEN PREPARED BASED ON THE FOLLOWING CODES:
a) NEPAL ROAD STANDARD 2070
b) IRC-5 2015
c) IRC-6 2017
d) IRC-78 2014
e) IRC-112 2020
f) IRC SP-13 2022
2. TOTAL WIDTH OF THE BRIDGE DECK: 11.85 M (8 M WIDE CARRIAGEWAY + 2.5 M WIDE FOOTPATH) HOWEVER THIS BRIDGE IS DESIGNED FOR THE FOLLOWING CARRIAGEWAY LIVE LOADS AS PER IRC:6-2017
a) ONE LANE OF IRC CLASS 70R (WHEELED) FOR TWO LANES + ONE LANE OF IRC CLASS A
b) THREE LANES OF IRC CLASS A
3. SEISMIC ZONE CONSIDERED IN THE DESIGN IS ZONE-V.
4. LAYING, COMPACTION, & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN/RETAINING WALLS SHALL CONSIST OF SELECTED EARTH CONFORMING TO THE APPENDIX-6 OF IRC:78-2014 HAVING PROPERTIES $C=0$, $\phi=30^\circ$ & DENSITY=20KN/m³.
5. 100mm DIA WEEP HOLES AT 1000mm C/C BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN STAGGERED MANNER IN VERTICAL WALLS OF THE ABUTMENT AND RETURN WALL ABOVE GL. IN ONE OR TWO LAYERS AT A SLOPE OF 1 VERTICAL TO 20 HORIZONTAL TOWARDS THE DRAINING FACE.

C. HYDRAULIC DATA: -

1. DESIGN DISCHARGE, (Q100) - 49.47 CUMECs
2. HFL - 130.700 M
3. FREE BOARD (MINIMUM) - 1 M
4. MAXIMUM SCOUR LEVEL:
ABUTMENT - 127.480m

SCOUR LEVELS WERE CALCULATED AS PER IRC 78:2014 CL 703 WITH APPROPRIATELY INCREASED DESIGN DISCHARGE

D. STRUCTURAL AND OTHER DATA: -

1. SPAN ARRANGEMENT: 1 X 20 = 20 m
2. SUPERSTRUCTURE:
PRECAST RCC LONGITUDINAL GIRDERS & CAST-IN-SITU RCC CROSS GIRDERS AND DECK SLAB.
3. SUBSTRUCTURE
A) ABUTMENTS - RCC WALL TYPE
4. FOUNDATIONS
A) ABUTMENT - 1200 DIA BORED CAST-IN-SITU PILE
DESIGN WORKING LOAD ON PILE - 270 TON
RCC BORED PILES SHOULD BE CONSTRUCTED AS PER IS: 2911(PART 1/SEC 2)-2010.
5. BEARINGS
ELASTOMERIC BEARINGS
6. WEARING COAT:
65 MM THICK ASPHALTIC CONCRETE WEARING COAT AS PER STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE WORKS (2073) ,
DEPARTMENT OF ROADS
7. EXPANSION JOINT -
SLAB SEAL TYPE EXPANSION JOINT OF PROVEN QUALITY SHALL BE PROVIDED IN ACCORDANCE WITH IRC:SP-69-2005 (GUIDELINES AND SPECIFICATIONS OF EXPANSION JOINT)
8. DRAINAGE SPOUTS - AS PER STANDARD SPECIFICATION FOR ROAD & BRIDGE WORKS 2073
9. RAILINGS/CRASH BARRIER:
RCC CRASH BARRIER AT EDGES OF CARRIAGEWAY AND FOOTPATH
10. FOOTPATH
2.5m WIDE FOOTPATH AT OUTER EDGE OF DECK

11. CONCRETE: -

- a. PILE..... M35 (CEMENT CONTENT AS PER SPECIFICATION)
b. PILE CAP.....M35
c. BEARING PEDESTALS.....M40
d. ABUTMENTM35
e. RETURN WALL.....M35
f. LEVELING COURSE: I) BELOW APPROACH SLAB.....M15
II) BELOW PILE CAP.....M15
g. APPROACH SLABM30
h. CAST-IN-SITU CRASH BARRIERM40
i. KERBM35
j. DECK SLAB FOR RCC GIRDERS.....M35
k. PRECAST RCC GIRDERSM35
l. CAST-IN-SITU CROSS GIRDER FOR RCC GIRDERS.....M35

12. REINFORCEMENT STEEL: -

- a. H.Y.S.D. BARS - GRADE 500 CONFORMING TO IS 1786
b. REINFORCEMENT WHERE EVER NECESSARY SHALL BE LOCALLY BENT OR ADJUSTED TO ENSURE PROPER CONCRETING.

13. CONCRETE COVER

- a. DECK SLAB, GIRDER, PEDESTAL, CAP : 40 MM
b. SUBSTRUCTURE AND FOUNDATION : 75 MM

14. LAPS (Ls) ARE TO BE STAGGERED AND MINIMUM LAP LENGTH ARE TO BE AS FOLLOWS:

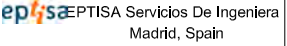
- a) FOR M 30 GRADE CONCRETE : 57.2 ϕ
b) FOR M 35 GRADE CONCRETE : 51.48 ϕ
c) FOR M 40 GRADE CONCRETE : 48.62 ϕ

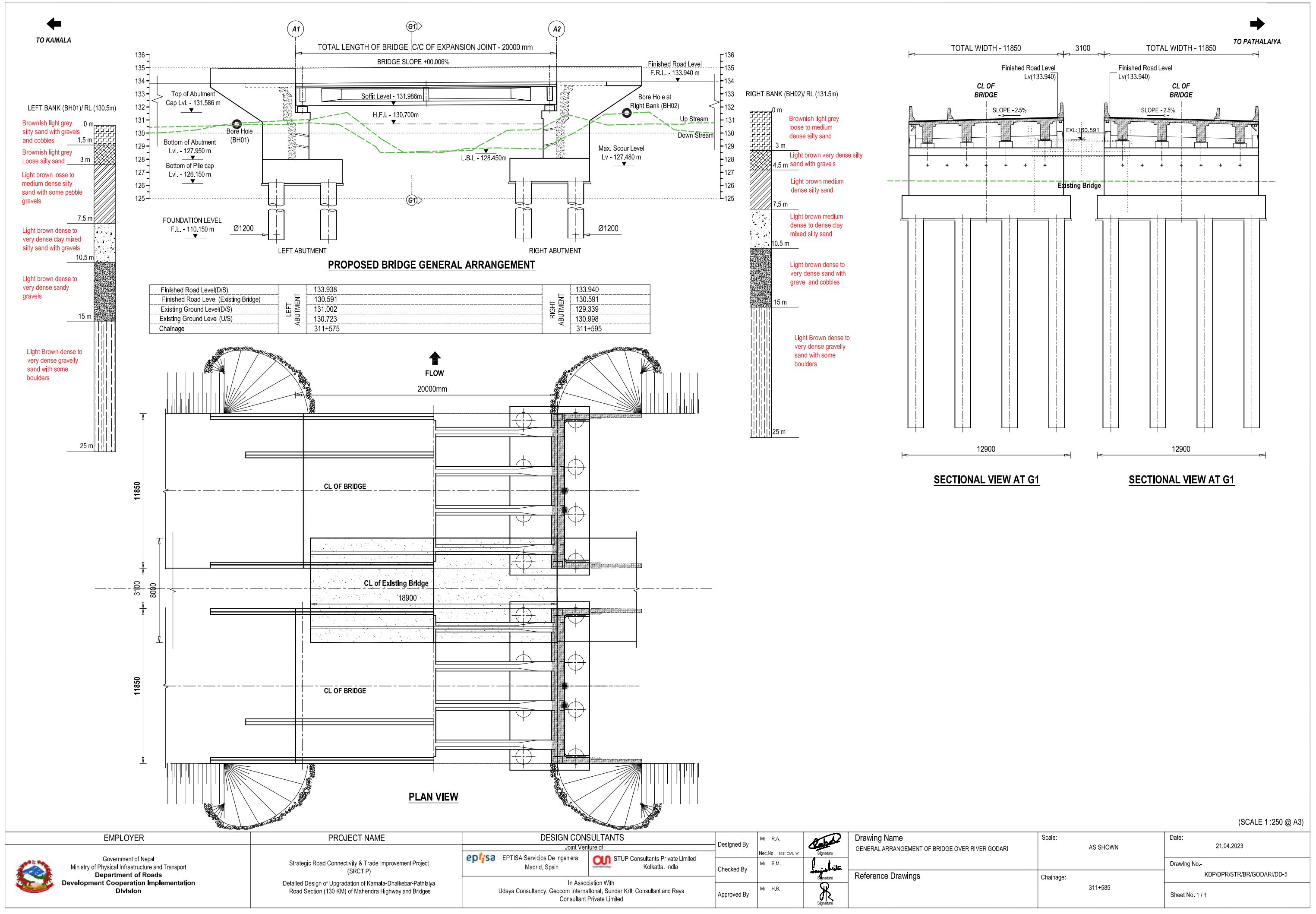
(WHERE ϕ IS THE DIAMETER OF THE BAR)

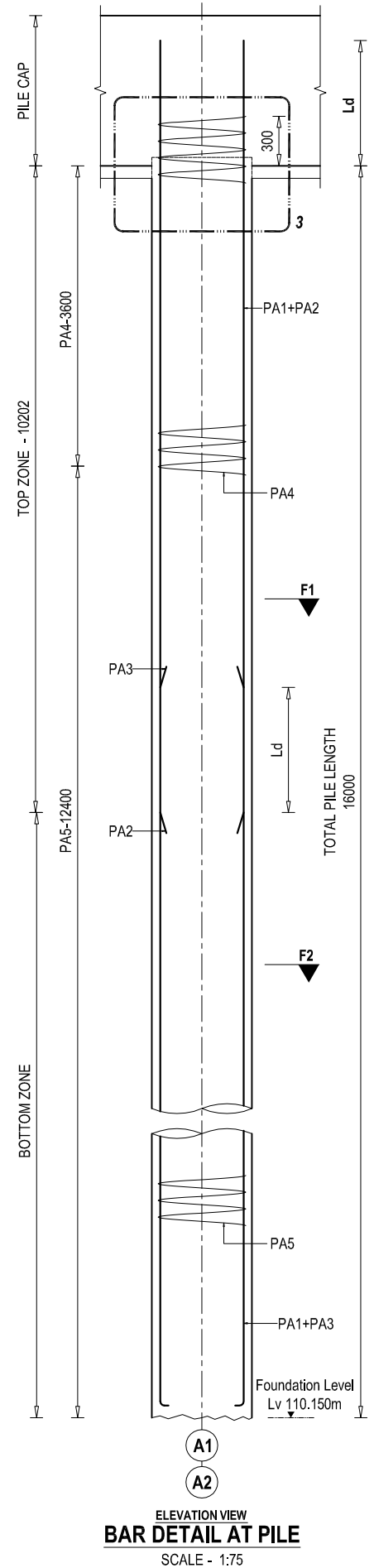
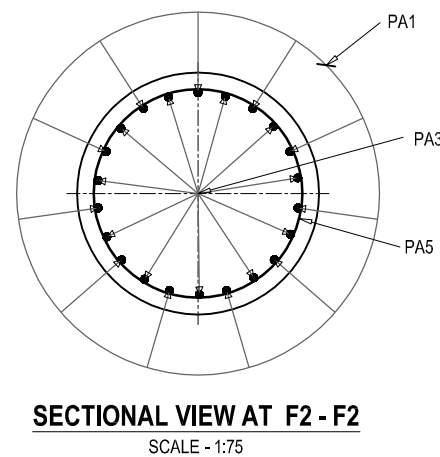
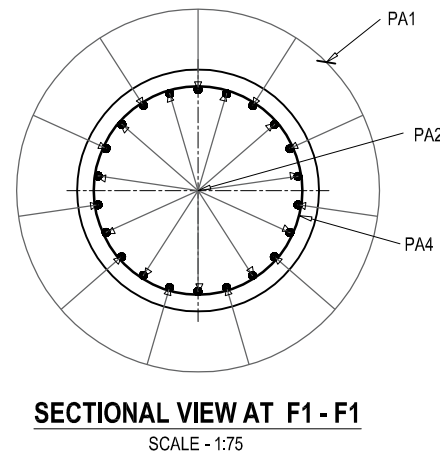
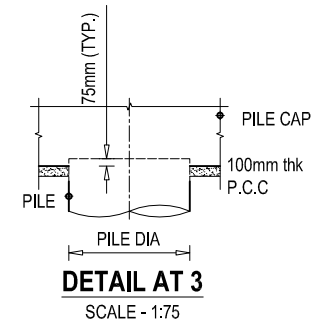
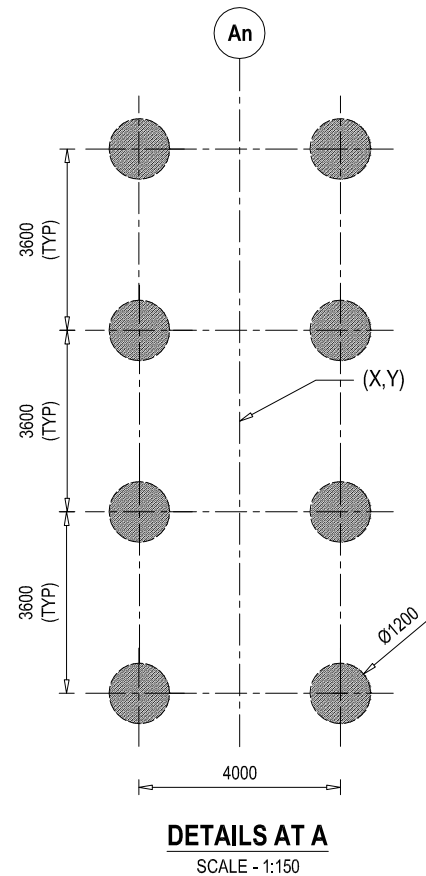
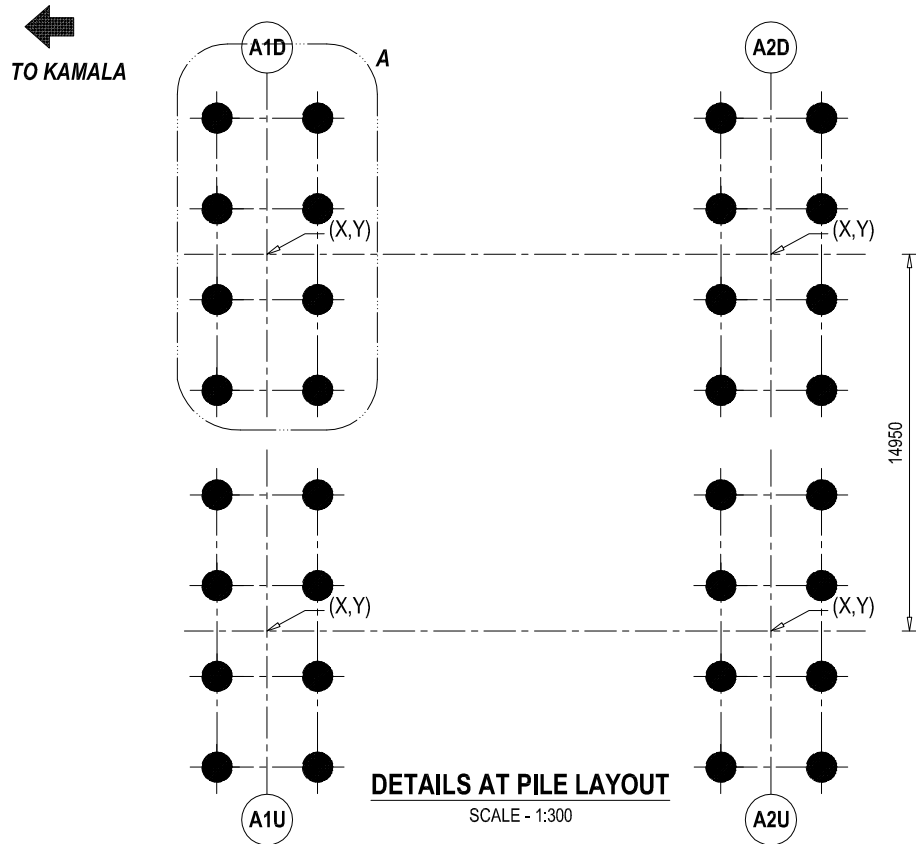
15. LAP LENGTH SHALL BE INCREASED BY A FACTOR BASED ON THE PERCENTAGE OF LAPPED BAR RELATIVE TO THE TOTAL CROSS SECTIONAL AREA. LAP LENGTH FOR DIFFERENT GRADE OF CONCRETE AS WELL AS DIFFERENT PERCENTAGE OF LAP LENGTH ARE AS FOLLOWS:

GRADE OF CONCRETE	M30	M35	M40	M45
LAPPED BAR <25%	57.2 ϕ	51.48 ϕ	48.62 ϕ	45.76 ϕ
25%≤LAPPED BAR <33%	65.78 ϕ	62.65 ϕ	55.91 ϕ	52.62 ϕ
33%≤LAPPED BAR <50%	80.08 ϕ	72.07 ϕ	68.07 ϕ	64.06 ϕ
50%≤LAPPED BAR	85.8 ϕ	77.22 ϕ	72.93 ϕ	68.64 ϕ

16. THE LAP LENGTH SHALL BE STAGGERED BY MINIMUM DISTANCE OF 1.3 TIMES THE LAP LENGTH.
17. HELICAL REINFORCEMENT SHALL BE LAPPED BY 1.5 TURNS.
18. INSTEAD OF LAPPING SPLICING OF REINFORCEMENT CAN BE DONE WITH WELDED JOINT AS PER CL. 15.2.5.2 OF IRC 112-2020. WELD LENGTH SHALL NOT BE LESS THAN 18D.
19. SHARP EDGES OF CONCRETE TO BE CHAMFERED MINIMUM 50 X 50

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 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingenieria Madrid, Spain  STUP Consultants Private Limited Kolkatta, India	Checked By	Mr. S.M.		GENERAL NOTES OF BRIDGE OVER RIVER GODARI	AS SHOWN	05.05.2023
		In Association With Udaya Consultancy, Geocom International, Sundar Krti Consultant and Rays Consultant Private Limited	Approved By	Mr. H.B.		Reference Drawings —	Chainage: 311+585	Drawing No.- KDP/DPR/STR/BR/GODARI /DD-4
								Sheet No. 1 / 1





BAR BENDING SCHEDULE OF ABUTMENT PILE								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	PA1	17650	25		17.950	11	3.858	761.77
2	PA2	13427	25		13.427	11	3.858	569.819
3	PA3	5723	12		6.023	11	0.889	58.89
4	PA4	Dia. 1034	16	115	3.448	45	1.580	245.21
5	PA5	Dia. 1034	12	115	3.448	95	0.889	291.19
TOTAL (KG) :								1926.88
No. of Pile								8.00
TOTAL WEIGHT (KG) :								15415.05

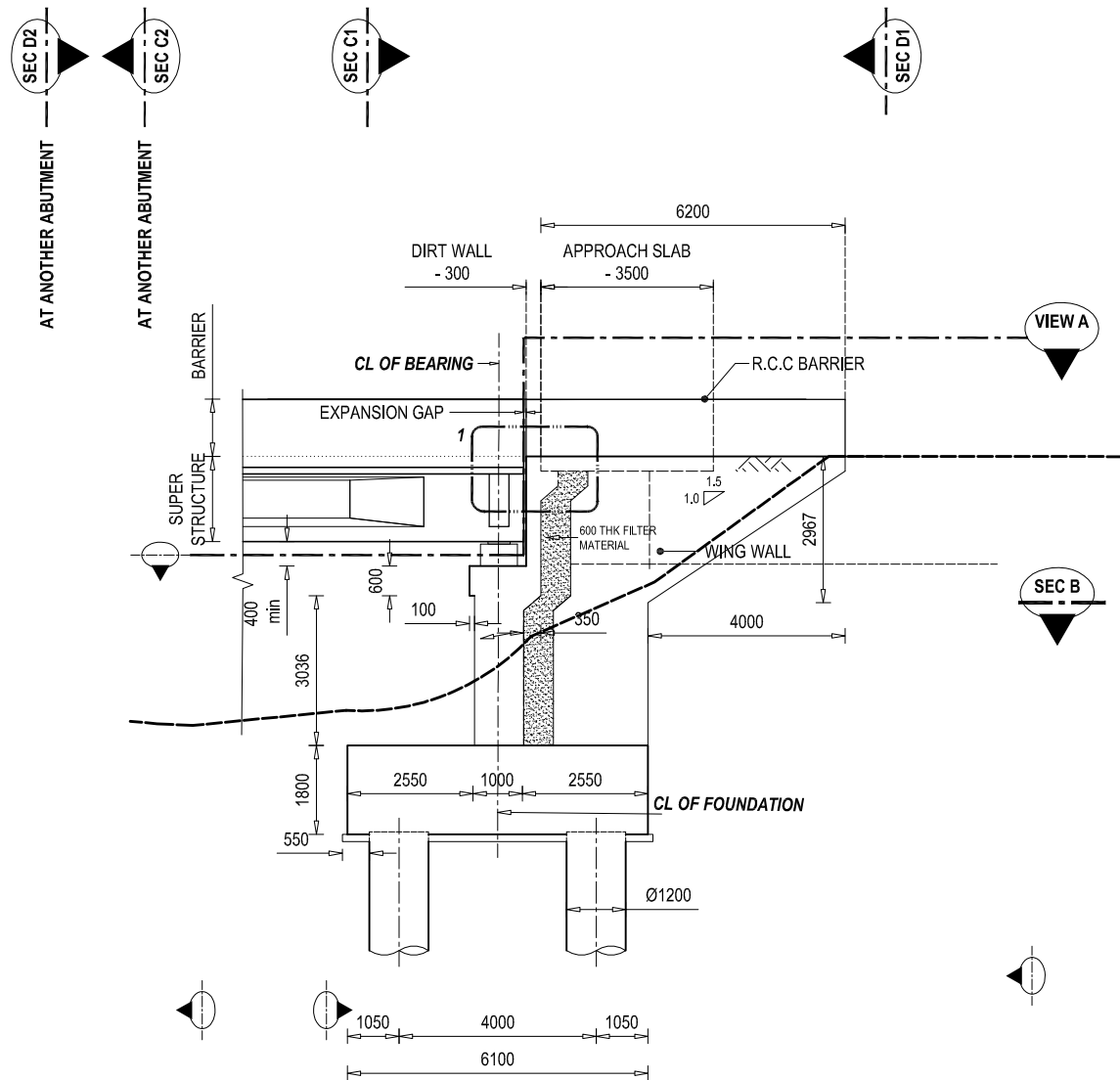
PILE CAPACITY (INDIVIDUAL)		
SN.	DIA (mm)	CAPACITY (Ton)
1	1200	270

CO ORDINATES OF PILE LOCATION OF PROPOSED BRIDGE

SN.	ABUTMENT	EASTING (X)	NORTHING (Y)
1	ABUTMENT (A1)	350589.589	3001553.648
2	ABUTMENT (A2)	350600.909	3001537.16

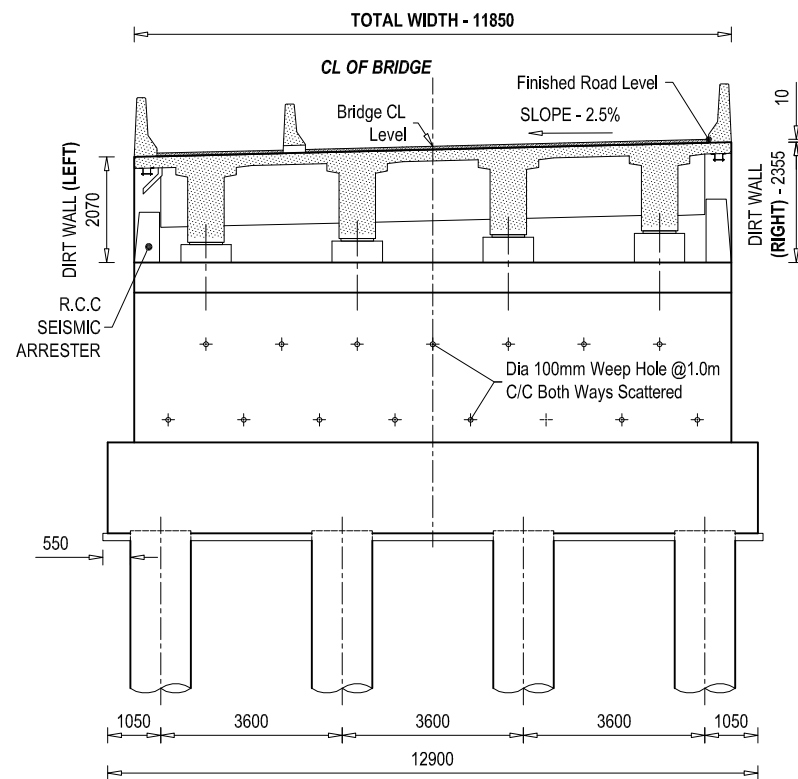
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EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Designed By	Mr. R.A. Nec.No. 6431 CIVIL 'A'		Drawing Name	Scale:	Date:
				Joint Venture of							
	Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP)			EPTISA Servicios De Ingenieria Madrid, Spain		STUP Consultants Private Limited Kolkatta, India	Approved By	Mr. H.B. 	Reference Drawings	Chainage:
		Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges									

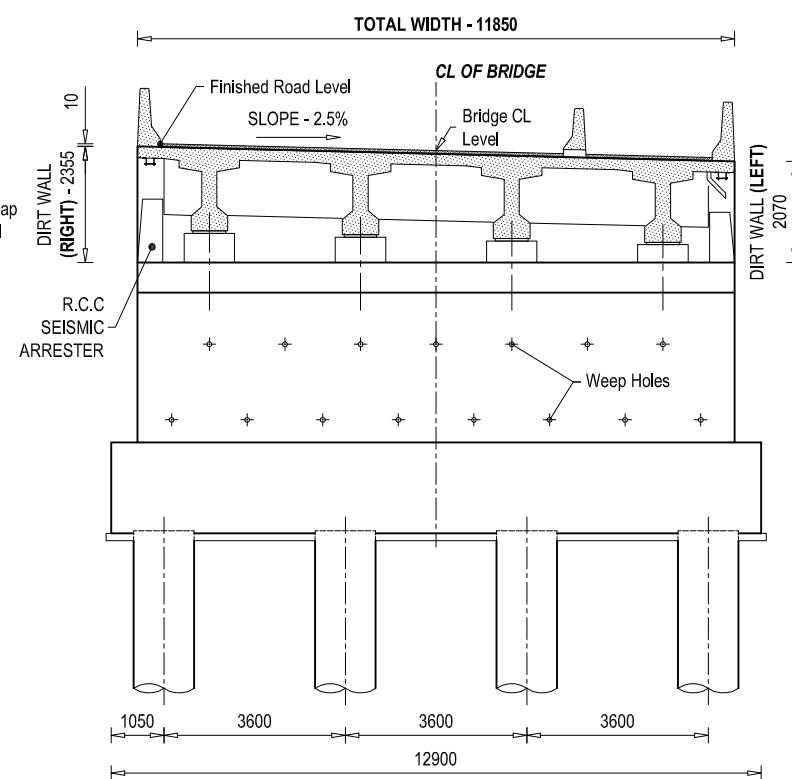


A2
OUTLINE DETAILS OF ABUTMENT
SCALE - 1: 150

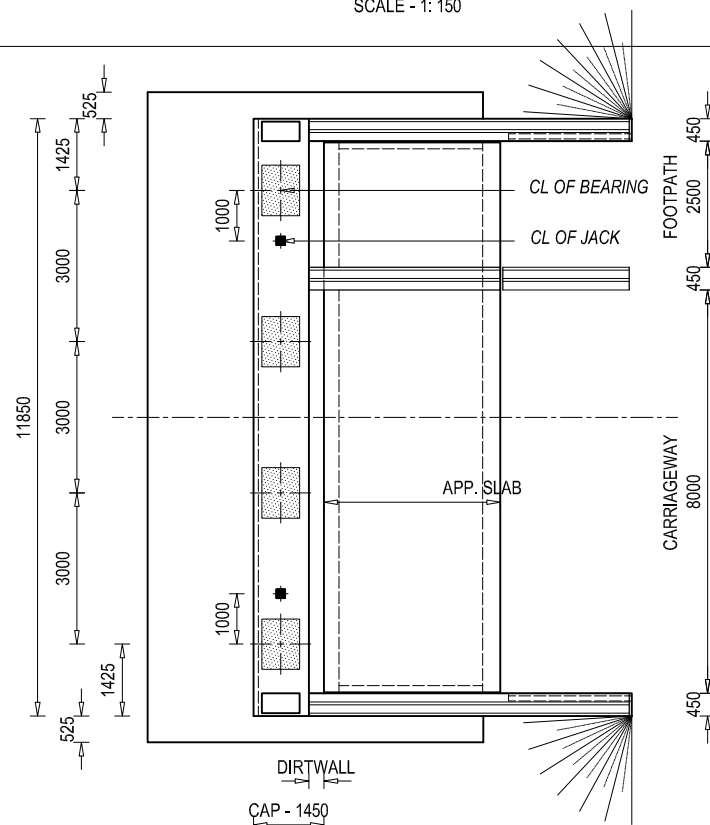
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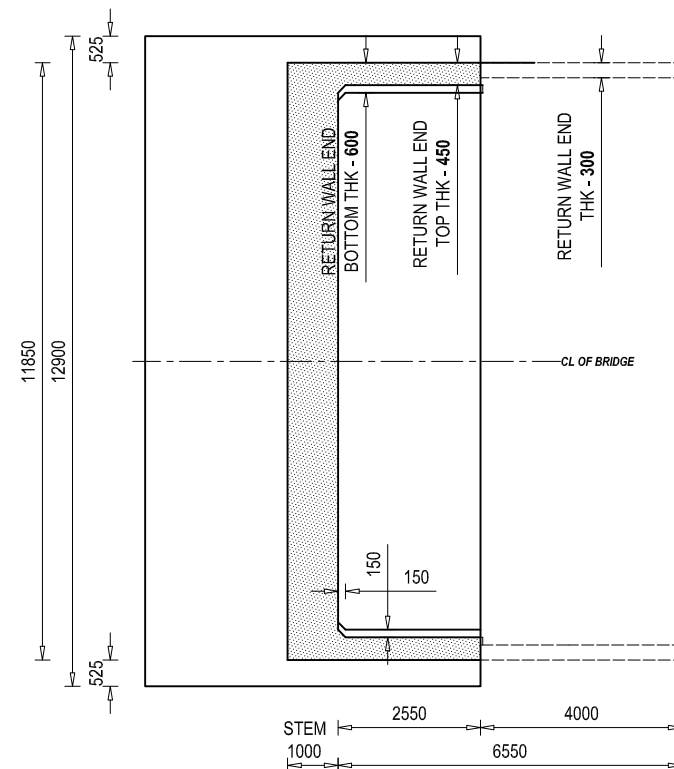
SECTIONAL VIEW AT C1 - C1
SCALE - 1: 150



SECTIONAL VIEW AT C2 - C2
SCALE - 1: 150

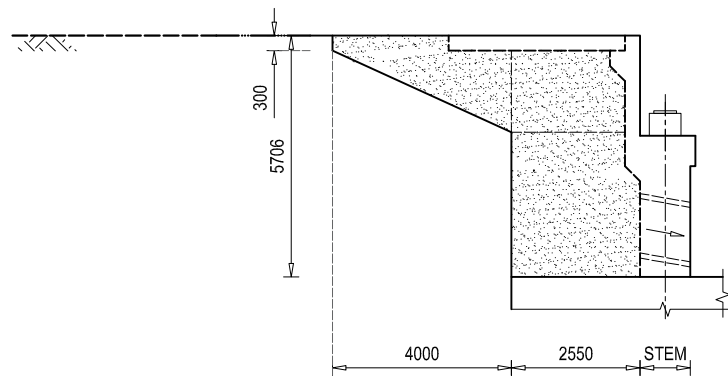


VIEW AT A
SCALE - 1: 150

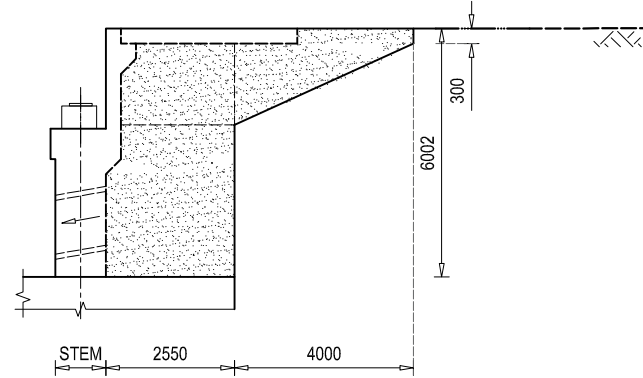


SECTIONAL VIEW AT B - B
SCALE - 1: 150

EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT NAME Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	DESIGN CONSULTANTS Joint Venture of ep4sa EPTISA Servicios De Ingeniera Madrid, Spain STUP Consultants Private Limited Kolkata, India In Association With Udaya Consultancy, Geocom International, Sundar Kirti Consultant and Rays Consultant Private Limited	Designed By Mr. R.A. Nec.No. 6431 CIVIL 'A' Signature Checked By Mr. S.M. Signature Approved By Mr. H.B. Signature	Drawing Name ABUTMENT DETAILS OF BRIDGE OVER RIVER GODARI Reference Drawings KDP/DPR/STR/BR/GODARI/DD-4	Scale: AS SHOWN Chainage: 311+585	Date: 21.04.2023 Drawing No.-KDP/DPR/STR/BR/GODARI/DD-7 Sheet No. 1 / 2
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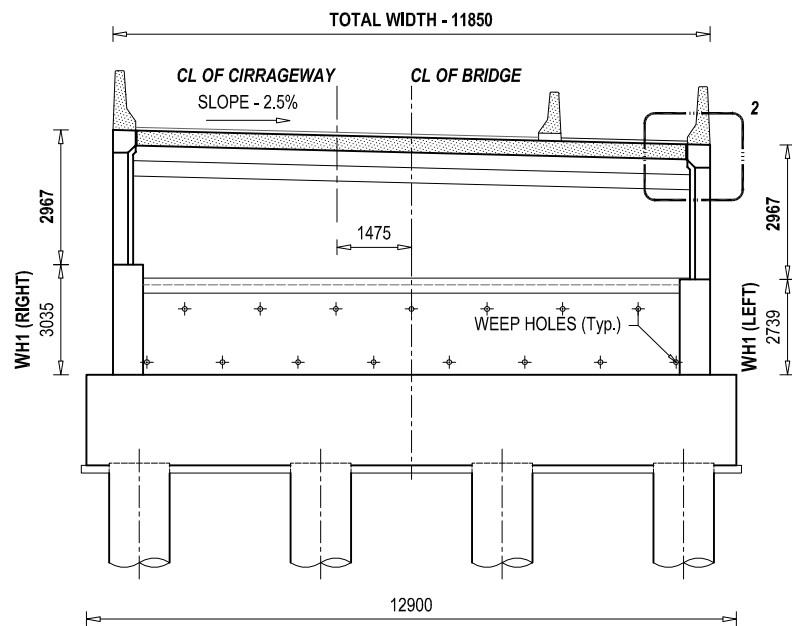


VIEW AT E1
SCALE - 1: 150

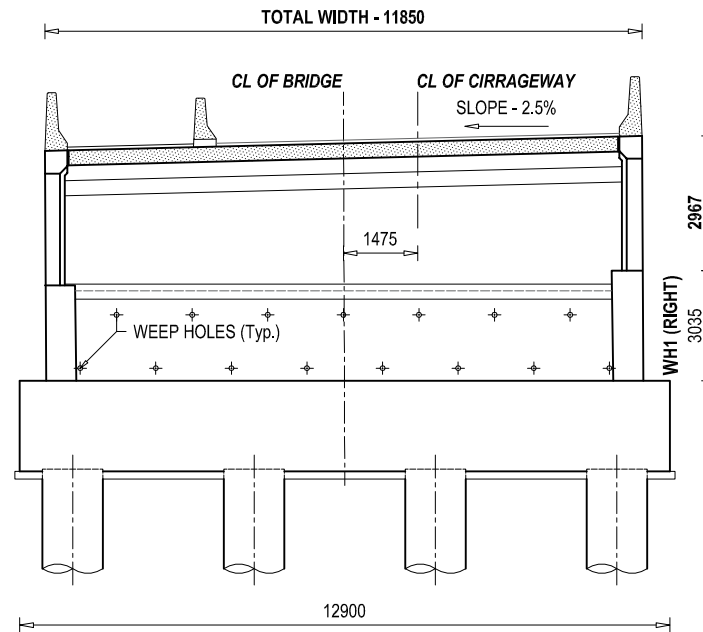


VIEW AT E2
SCALE - 1: 150

DETAIL AT RETURN WALL

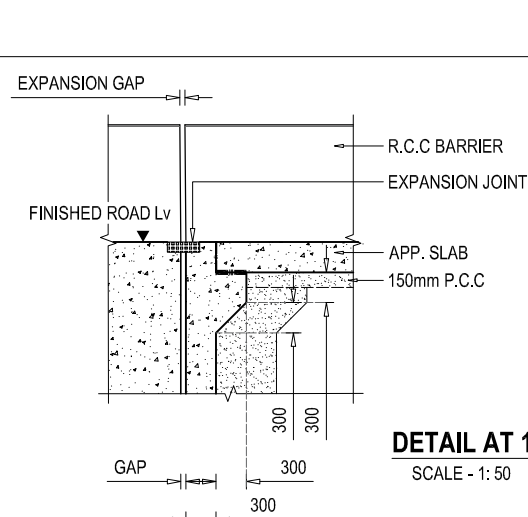


SECTIONAL VIEW AT D1 - D1
SCALE - 1: 150



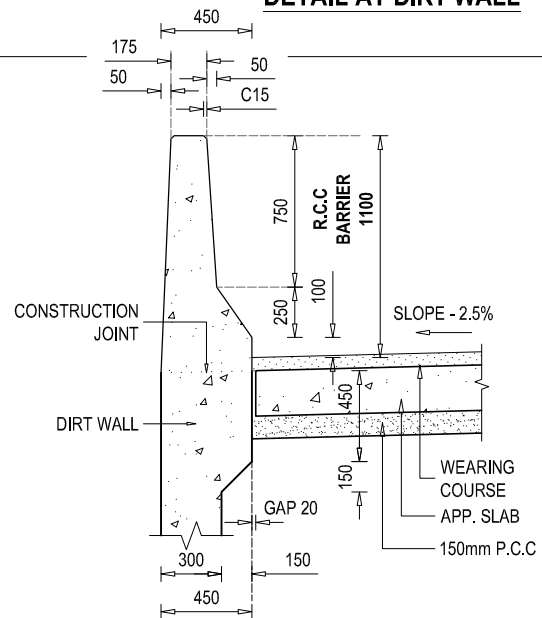
SECTIONAL VIEW AT D2 - D2
SCALE - 1: 150

DETAIL AT DIRT WALL

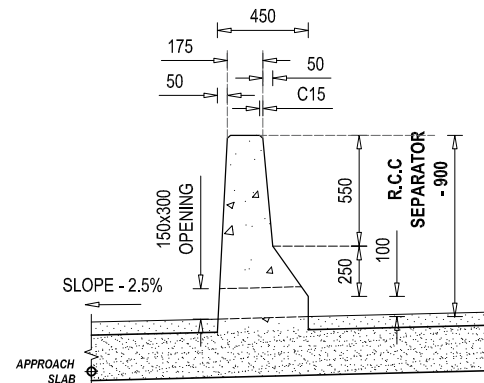


DETAIL AT 1
SCALE - 1: 50

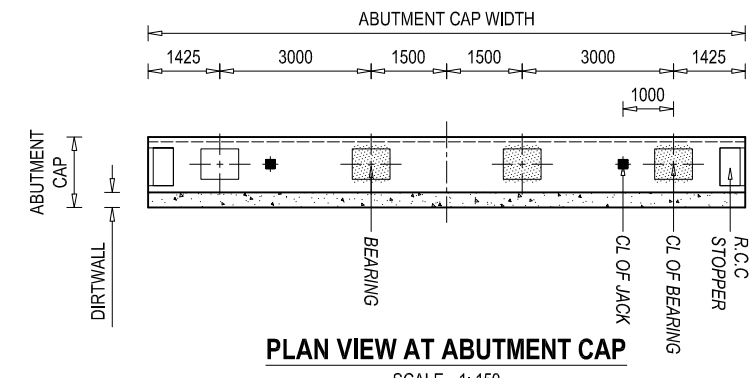
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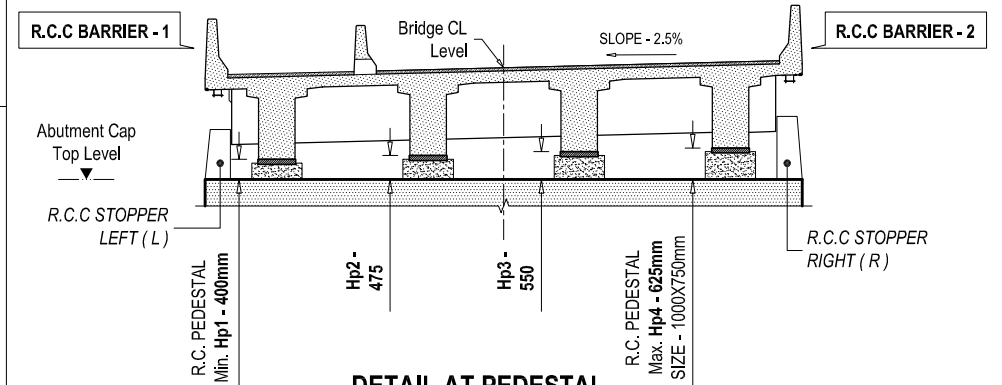
**DETAIL SECTIONAL VIEW
AT R.C.C BARRIER - 1
DETAIL AT 2**
SCALE - 1: 25



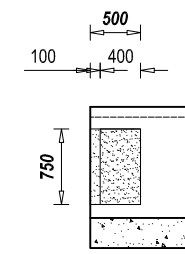
**DETAIL SECTIONAL VIEW
AT R.C.C SEPARATOR**
SCALE - 1: 25



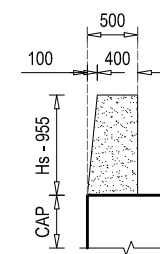
PLAN VIEW AT ABUTMENT CAP
SCALE - 1: 150



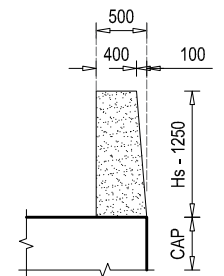
DETAIL AT PEDESTAL
SCALE - 1: 150



**R.C.C SEISMIC ARRESTER
PLAN VIEW**

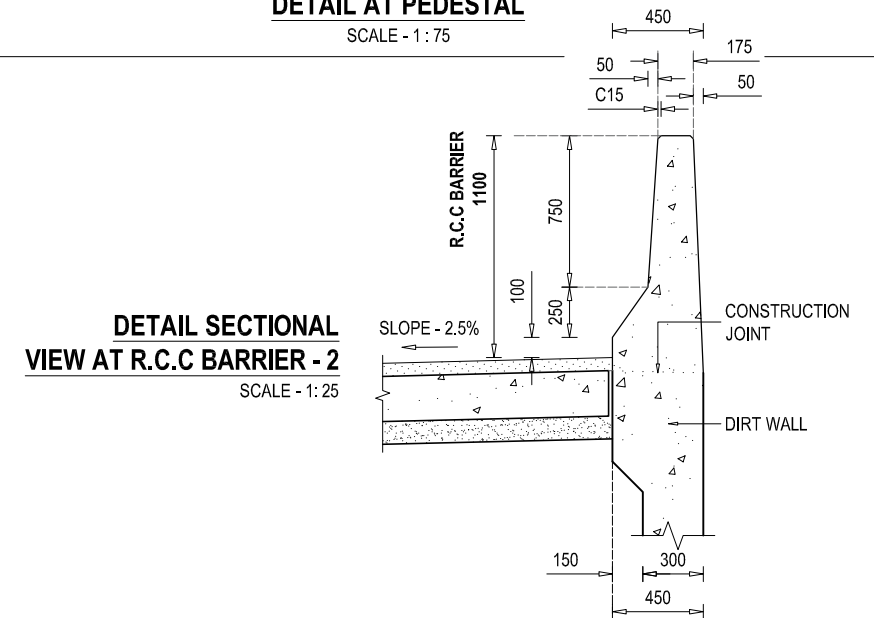


**R.C.C SEISMIC ARRESTER - LEFT
ELEVATION VIEW**



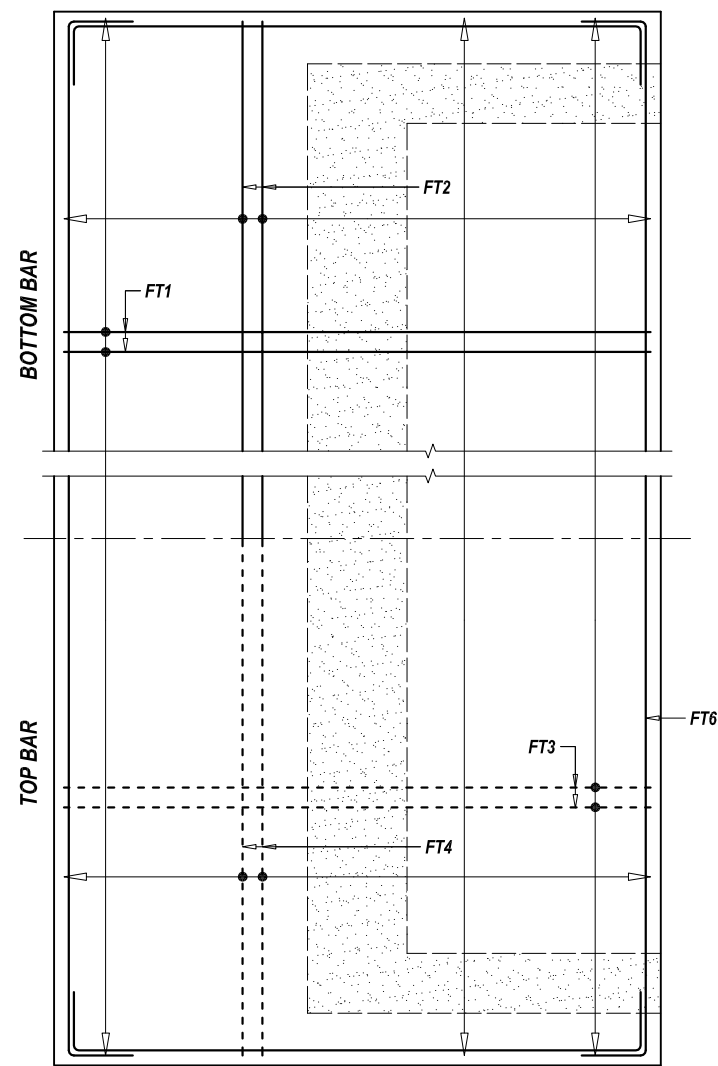
**R.C.C SEISMIC ARRESTER - RIGHT
ELEVATION VIEW**

DETAIL AT PEDESTAL
SCALE - 1: 75

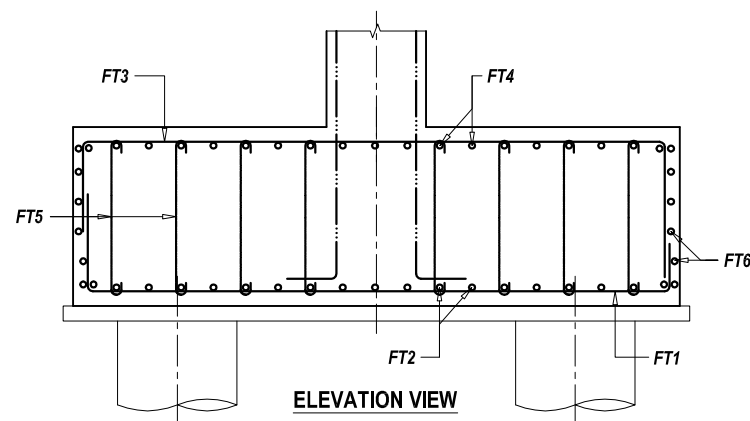


**DETAIL SECTIONAL
VIEW AT R.C.C BARRIER - 2**
SCALE - 1: 25

EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathalaya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingenieria Madrid, Spain  STUP Consultants Private Limited Kolkata, India In Association With Udaya Consultancy, Geocom International, Sundar Kritt Consultant and Rays Consultant Private Limited	Mr. R.A. Nec.No. 6431 CIVIL 'A' Signature Mr. S.M. Signature Mr. H.B. Signature	ABUTMENT DETAILS OF BRIDGE OVER RIVER GODARI Reference Drawings KDP/DPR/STR/BR/GODARI/DD-9	AS SHOWN Chainage: 311+585	21.04.2023 Drawing No.- KDP/DPR/STR/BR/GODARI/DD-7 Sheet No. 2 / 2



PLAN VIEW

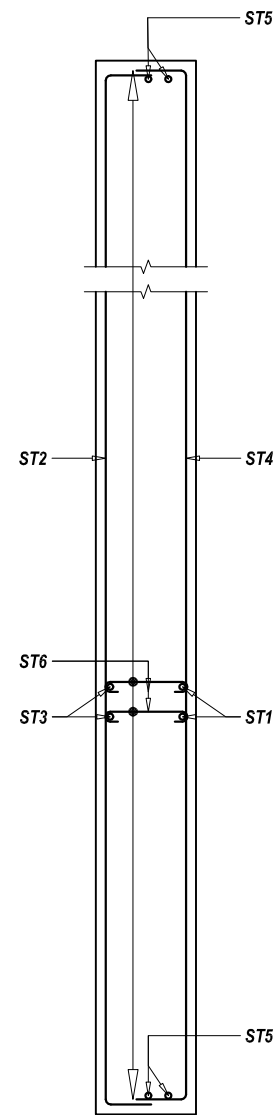


ELEVATION VIEW

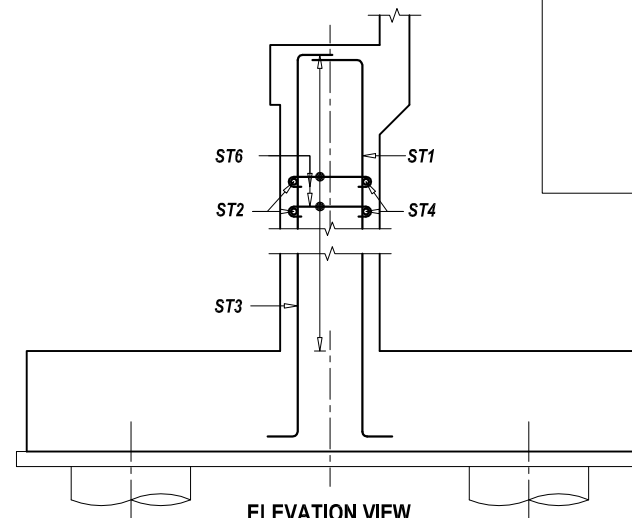
BAR DETAIL OF PILE CAP

SCALE - 1 : 75

NOTE
READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/GODARI/DD-4



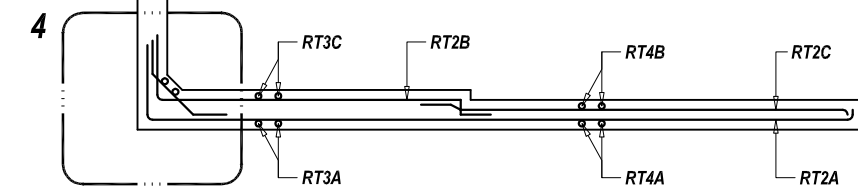
SECTIONAL PLAN VIEW



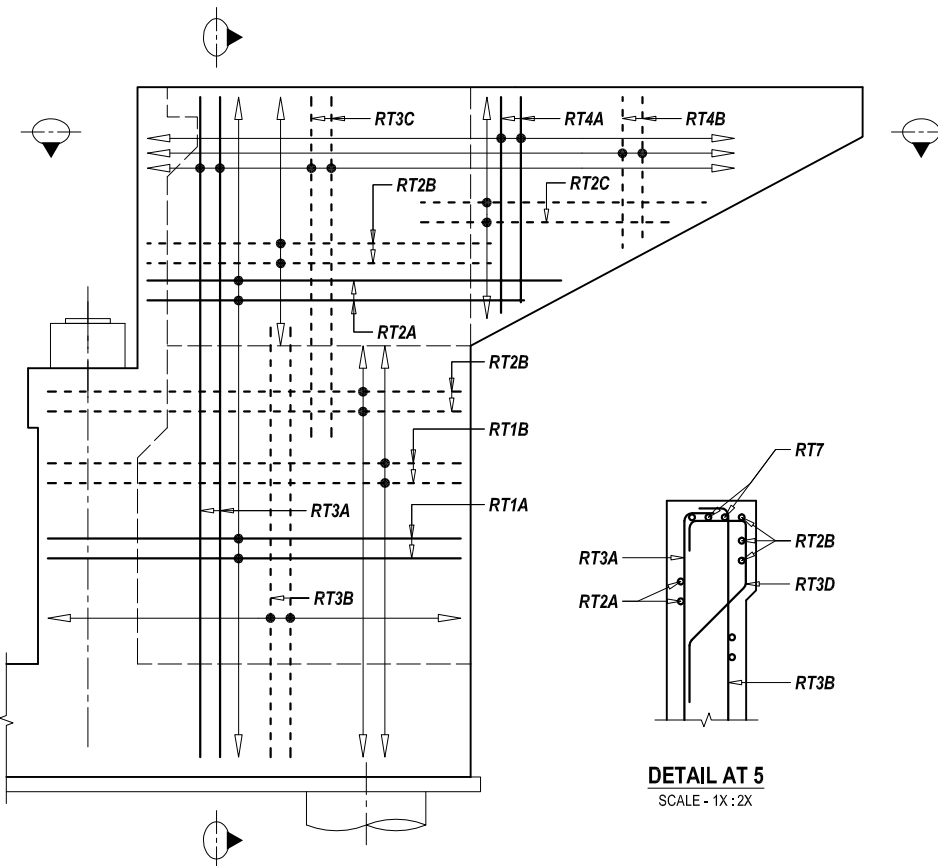
ELEVATION VIEW

BAR DETAIL AT ABUTMENT STEM

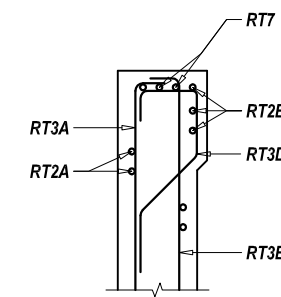
SCALE - 1 : 75



SECTIONAL PLAN VIEW



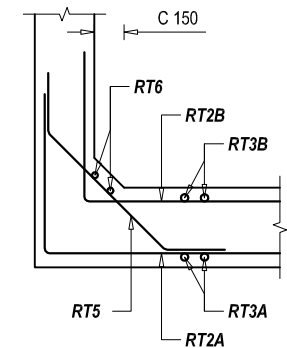
ELEVATION VIEW



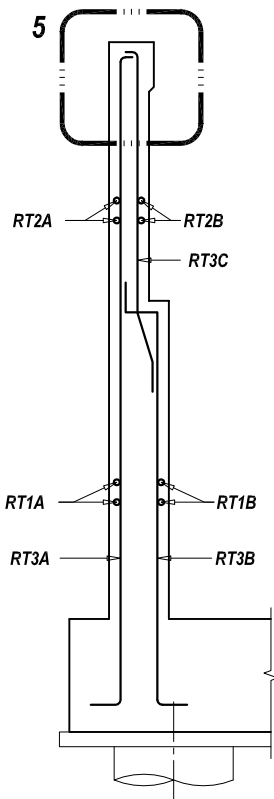
DETAIL AT 5
SCALE - 1X : 2X

BAR DETAIL AT RETURN WALL

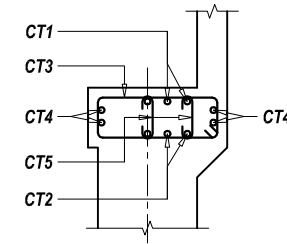
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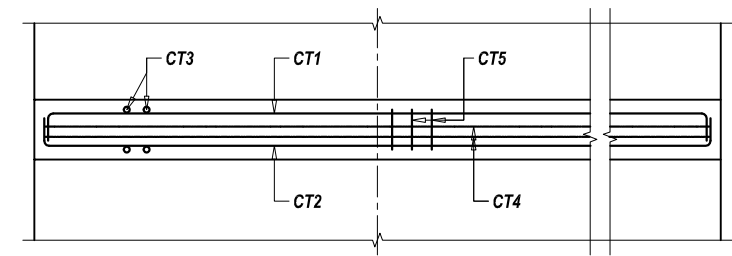
DETAILS AT 4



SECTIONAL SIDE VIEW



ELEVATION VIEW



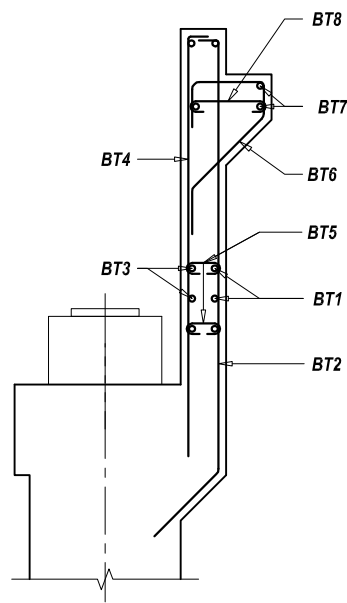
FRONT VIEW

BAR DETAIL AT ABUTMENT CAP

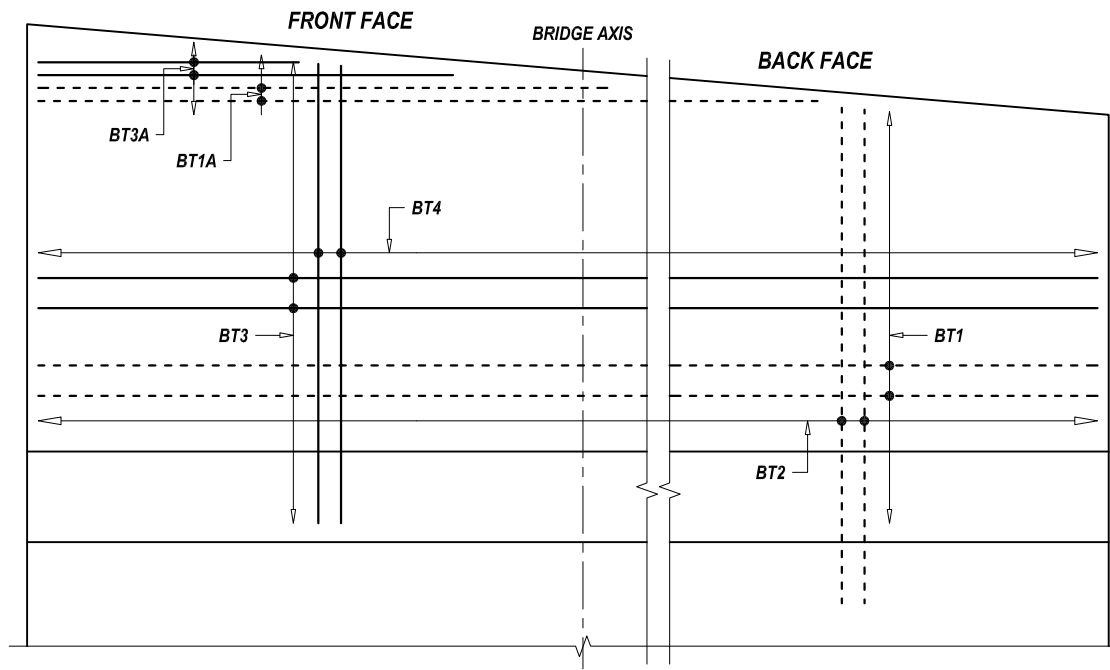
SCALE - 1 : 75

--- TOP BAR OR
NEAR FACE REINFORCEMENT
--- BOTTOM BAR OR
FAR FACE REINFORCEMENT

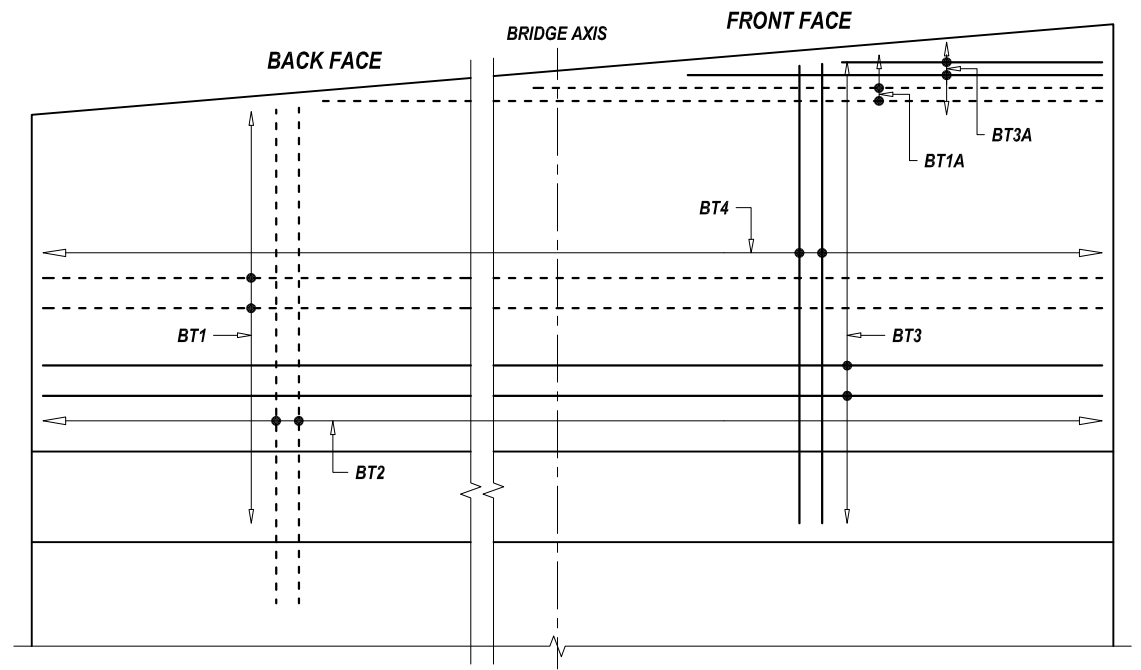
EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Drawing Name	Scale:	Date:
Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Patilaia Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of EPTISA Servicios De Ingeniera Madrid, Spain STUP Consultants Private Limited Kolkatta, India In Association With Udaya Consultancy, Geocom International, Sundar Kriti Consultant and Rays Consultant Private Limited	Mr. R.A. Nec.No. 6431 CIVIL 'A' Signature Mr. S.M. Signature Mr. H.B. Signature	ABUTMENT REINFORCEMENT DETAILS OF BRIDGE OVER RIVER GODARI Reference Drawings KDP/DPR/STR/BR/GODARI/DD-9	AS SHOWN Chainage: 311+585	21.04.2023 Drawing No.- KDP/DPR/STR/BR/GODARI/DD-8 Sheet No. 1 / 2



SECTIONAL SIDE VIEW



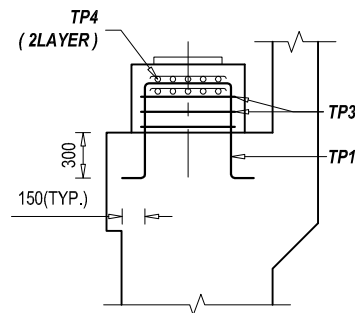
ELEVATION VIEW / VIEW AT D1



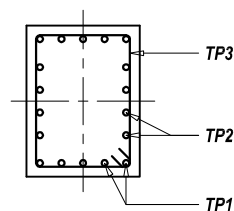
ELEVATION VIEW / VIEW AT D2

BAR DETAIL AT DIRT WALL

SCALE - 1 : 50



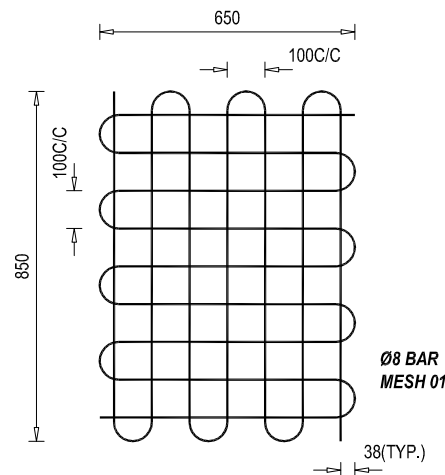
SECTIONAL SIDE VIEW



SECTIONAL PLAN VIEW
BAR DETAIL AT PEDESTAL

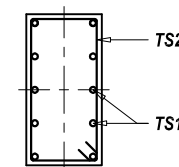
SCALE - 1 : 50

NOTE
READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/GODARI/DD-4

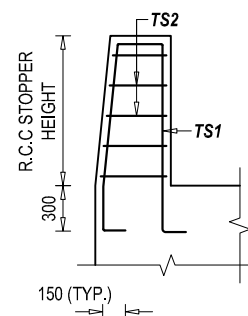


REINFORCEMENT DETAILS OF
BEARING MESH

SCALE - 1 : 50

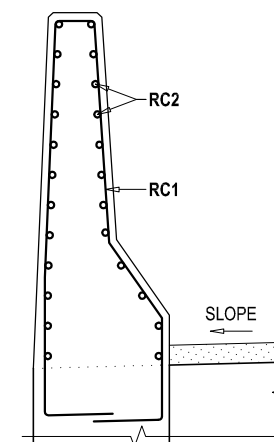


SECTIONAL PLAN VIEW



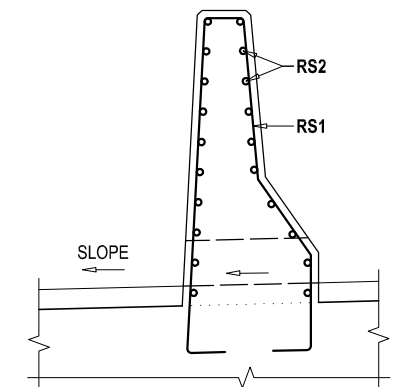
R.C.C STOPPER LEFT
ELEVATION VIEW

SCALE - 1 : 50



REINFORCEMENT DETAILS OF
R.C.C BARRIER (B)- SECTIONAL VIEW

SCALE - 1 : 25

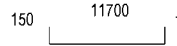
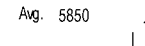
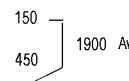
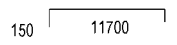
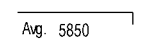
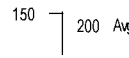
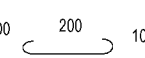
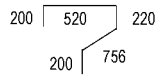
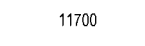
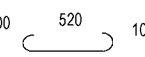


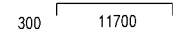
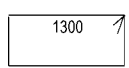
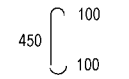
REINFORCEMENT DETAILS OF
R.C.C SEPARATOR - SECTIONAL VIEW

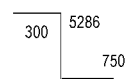
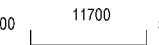
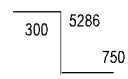
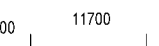
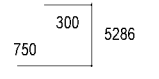
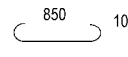
SCALE - 1 : 25

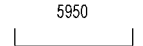
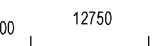
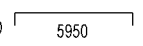
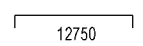
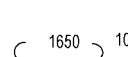
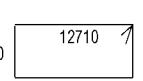
— TOP BAR OR
NEAR FACE REINFORCEMENT
- - - BOTTOM BAR OR
FAR FACE REINFORCEMENT

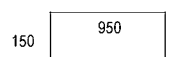
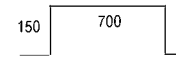
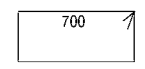
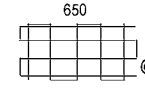
EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Mr. R.A.	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingeniera Madrid, Spain  STUP Consultants Private Limited Kolkatta, India In Association With Udaya Consultancy, Geocom International, Sundar Kritt Consultant and Rays Consultant Private Limited	Checked By	Mr. S.M.	ABUTMENT REINGORCEMENT DETAILS OF BRIDGE OVER RIVER GODARI Reference Drawings KDP/DPR/STR/BR/GODARI/DD-9	AS SHOWN Chainage: 311+585	21.04.2023 Drawing No.- KDP/DPR/STR/BR/GODARI/DD-8 Sheet No. 2 / 2
			Approved By	Mr. H.B.			

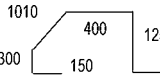
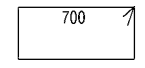
BAR BENDING SCHEDULE OF DIRT WALL								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	BT1		16	200	12.000	16	1.580	303.41
2	BT1A		16	200	12.000	3	1.580	56.89
3	BT2		16	125	2.500	96	1.580	379.26
4	BT3		16	200	12.000	12	1.580	227.56
5	BT3A		16	200	6.000	3	1.580	28.44
6	BT4		12	125	1.675	96	0.889	142.93
7	BT5		12	500	0.400	96	0.889	34.13
8	BT6		12	200	1.896	61	0.889	102.81
9	BT7		16		11.700	5	1.580	92.44
10	BT8		12	200	0.720	120	0.889	76.80
TOTAL (KG) : 1444.67								

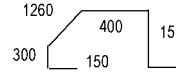
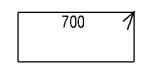
BAR BENDING SCHEDULE OF ABUTMENT CAP								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	CT1		16	150	12.300	11	1.580	213.81
2	CT2		16	150	12.300	11	1.580	213.81
3	CT3		16	150	3.700	80	1.580	467.75
4	CT4		12	150	12.300	8	0.889	87.47
5	CT5		12	Long. 150 Trans.300	0.650	338	0.889	195.29
TOTAL (KG) : 1178.12								

BAR BENDING SCHEDULE OF ABUTMENT STEM								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	ST1		20		6.336	100	2.469	1564.44
2	ST2		16	190	12.700	16	1.580	321.11
3	ST3		20		6.336	100	2.469	1564.44
4	ST4		16	190	12.700	16	1.580	321.11
5	ST5		16		6.336	12	1.580	120.15
6	ST6		12	Ver. 500 Hor.500	1.050	144	0.889	134.40
TOTAL (KG) : 4025.65								

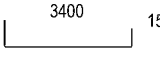
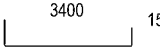
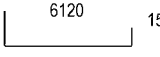
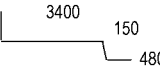
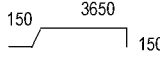
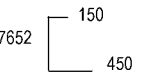
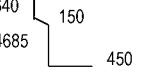
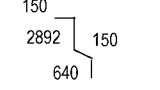
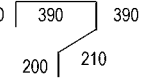
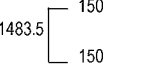
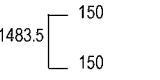
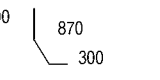
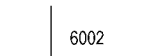
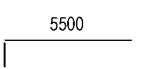
BAR BENDING SCHEDULE OF PILE CAP								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	FT1		25		6.950	100	3.858	2681.33
2	FT2		20		13.750	50	2.469	1697.53
3	FT3		16		8.750	100	1.580	1382.72
4	FT4		16		15.550	50	1.580	1228.64
5	FT5		10	Long. 250 Trans.500	1.850	521	0.617	594.97
6	FT6		16	200	37.520	8	1.580	474.33
TOTAL (KG) : 8059.51								

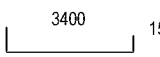
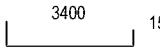
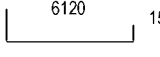
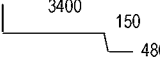
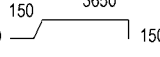
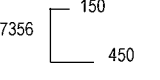
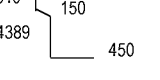
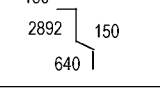
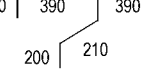
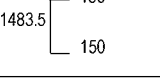
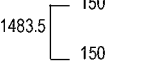
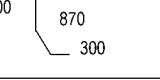
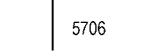
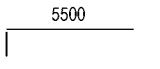
BAR BENDING SCHEDULE OF PEDESTAL								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	TP1		16	150	2.850	6	1.580	27.02
1	TP2		16	150	2.350	8	1.580	29.71
2	TP3		16	150	3.500	4	1.580	22.12
1	TP4		8		13.400	2	0.395	10.59
TOTAL (KG) :								89.44
TOTAL NOS OF PEDESTAL :								4.00
TOTAL WEIGHT (KG) : 357.77								

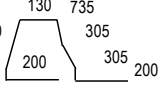
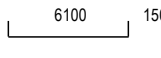
BAR BENDING SCHEDULE OF RCC SEISMIC ARRESTER - LEFT								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	TS1-L		16	150	3.265	6	1.580	30.96
2	TS2-L		12	150	2.400	7	0.889	14.93
TOTAL (KG) : 45.89								

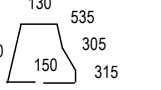
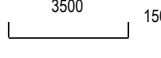
BAR BENDING SCHEDULE OF RCC SEISMIC ARRESTER - RIGHT								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	TS1-R		16	150	3.770	6	1.580	35.75
2	TS2-R		12	150	3.400	9	0.889	27.20
TOTAL (KG) : 62.95								

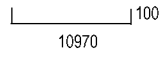
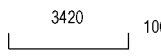
EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Drawing Name		Scale:		Date:	
	Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP)	Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of		Designed By	Mr. R.A.		AS SHOWN	21.04.2023	
				 EPTISA Servicios De Ingenieria Madrid, Spain	 STUP Consultants Private Limited Kolkatta, India	Checked By	Mr. S.M.				
				In Association With Udaya Consultancy, Geocom International, Sundar Kritt Consultant and Rays Consultant Private Limited		Approved By	Mr. H.B.		Reference Drawings		Chainage:
						-			Sheet No.1 / 2		

BAR BENDING SCHEDULE OF RETURN WALL - LEFT								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	RT1A		12	150	4.000	41	0.889	145.78
2	RT1B		12	150	4.000	41	0.889	145.78
3	RT2A		12	150	6.720	21	0.889	125.44
4	RT2B		12	150	4.180	21	0.889	78.03
5	RT2C		12	150	4.430	21	0.889	82.69
6	RT3A		12	150	8.252	18	0.889	132.03
7	RT3B		16	150	5.925	18	1.580	168.53
8	RT3C		16	150	3.832	18	1.580	109.00
9	RT3D		16	150	1.390	43	1.580	94.45
10	RT4A		12	150	1.784	50	0.889	79.27
11	RT4B		16	150	1.784	50	1.580	140.92
12	RT5		12	150	1.470	61	0.889	79.71
13	RT6		12		6.002	2	0.889	10.67
14	RT7		20		5.725	4	2.469	56.54
TOTAL (KG) :								1448.84

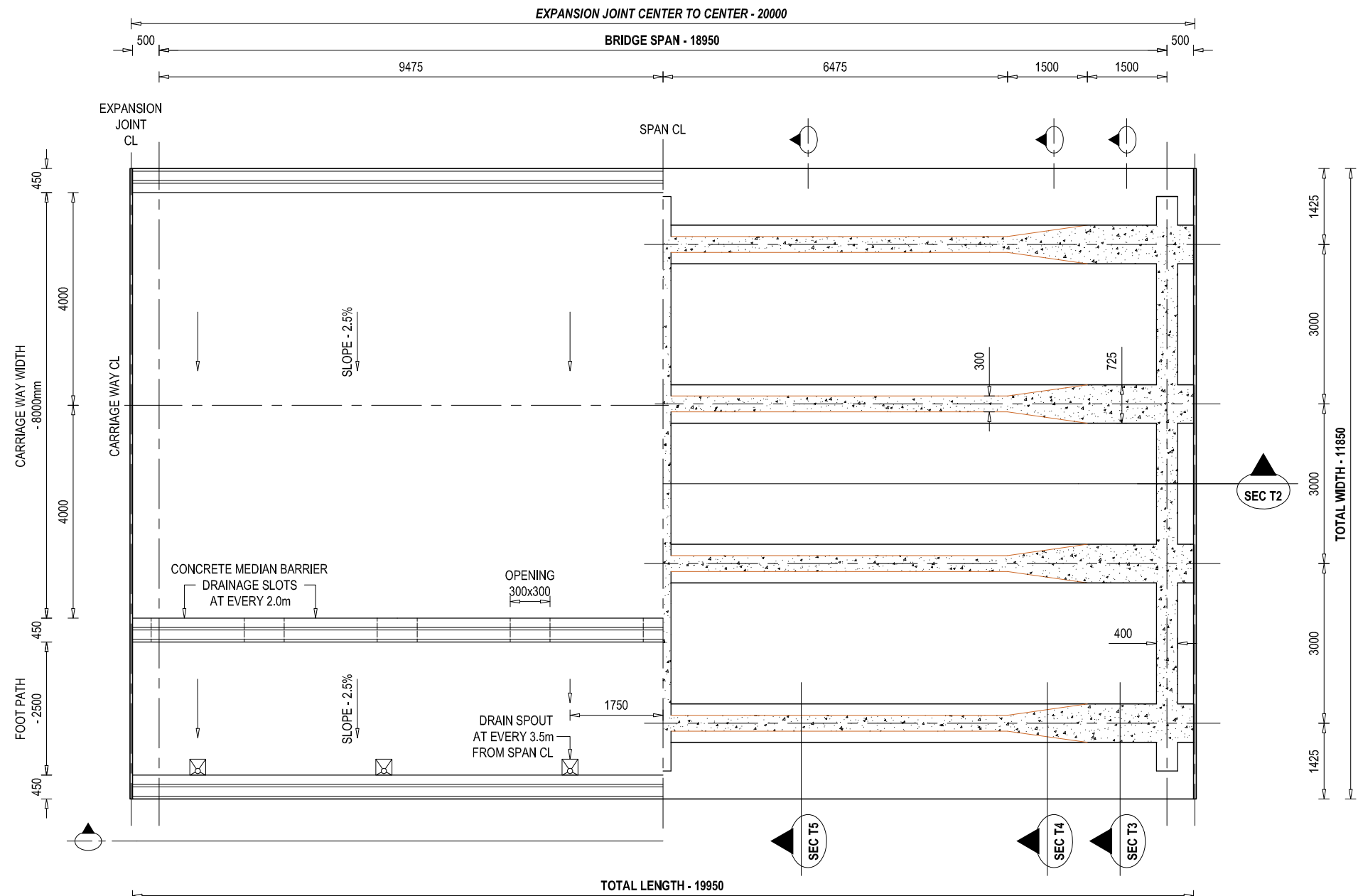
BAR BENDING SCHEDULE OF RETURN WALL - RIGHT								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	RT1A		12	150	4.000	39	0.889	138.67
2	RT1B		12	150	4.000	39	0.889	138.67
3	RT2A		12	150	6.720	21	0.889	125.44
4	RT2B		12	150	4.180	21	0.889	78.03
5	RT2C		12	150	4.430	21	0.889	82.69
6	RT3A		12	150	7.956	18	0.889	127.30
7	RT3B		16	150	5.629	18	1.580	160.11
8	RT3C		16	150	3.832	18	1.580	109.00
9	RT3D		16	150	1.390	43	1.580	94.45
10	RT4A		12	150	1.784	50	0.889	79.27
11	RT4B		16	150	1.784	50	1.580	140.92
12	RT5		12	150	1.470	61	0.889	79.71
13	RT6		12		5.706	2	0.889	10.14
14	RT7		20		5.725	4	2.469	56.54
TOTAL (KG) :								1420.93

BAR BENDING SCHEDULE OF R.C.C BARRIER								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	RC1		16	150	3.170	42	1.580	210.39
2	RC2		10	150	6.400	20	0.617	79.01
TOTAL (KG) :								289.41

BAR BENDING SCHEDULE OF R.C.C SEPARATOR								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	RS1		16	150	2.695	25	1.580	106.47
2	RS2		10	150	3.800	17	0.617	39.88
TOTAL (KG) :								146.35

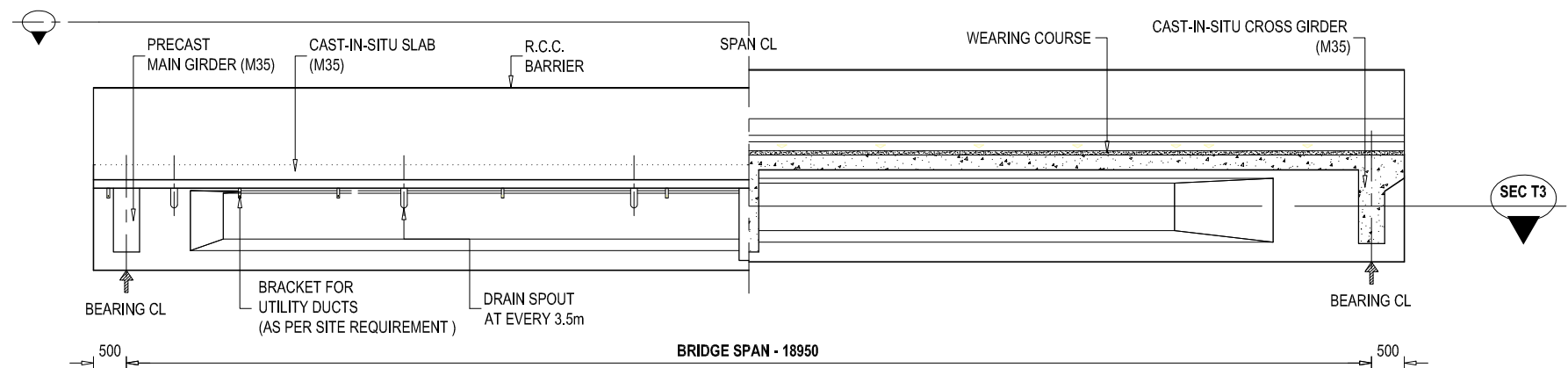
BAR BENDING SCHEDULE OF APPROACH SLAB								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	1601		16	150	11.170	48	1.580	847.27
2	1202		12	150	3.620	150	0.889	482.67
TOTAL (KG) :								1329.93

EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Drawing Name		Scale:		Date:	
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division		Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges		Joint Venture of		Designed By	Mr. R.A.	AS SHOWN	311+585	21.04.2023	
				 EPTISA Servicios De Ingeniera Madrid, Spain  STUP Consultants Private Limited Kolkata, India		Checked By	Mr. S.M.			Drawing No.- KDP/DPR/STR/BR/GODARI/DD-9	
				In Association With Udaya Consultancy, Geocom International, Sundar Kritt Consultant and Rays Consultant Private Limited		Approved By	Mr. H.B.			Sheet No. 2 / 2	



HALF SECTIONAL PLAN VIEW OF SUPERSTRUCTURE AT SEC T1

SCALE - 1 : 100 @ A3 PAPER

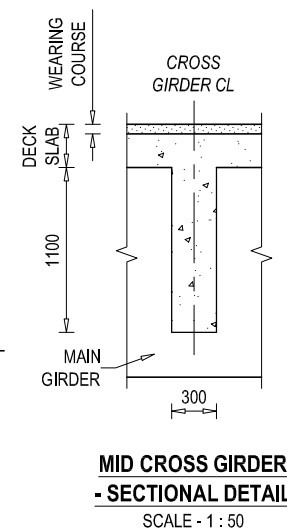
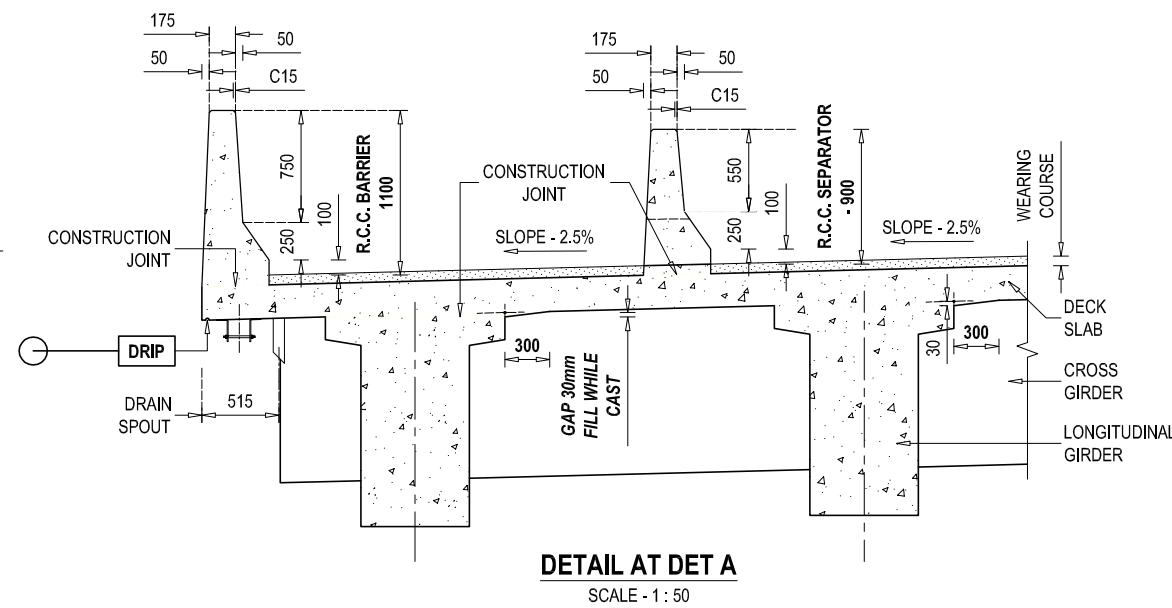
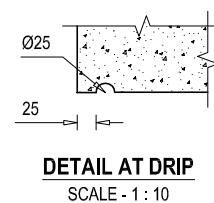
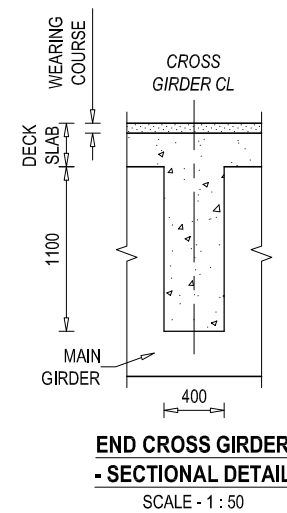
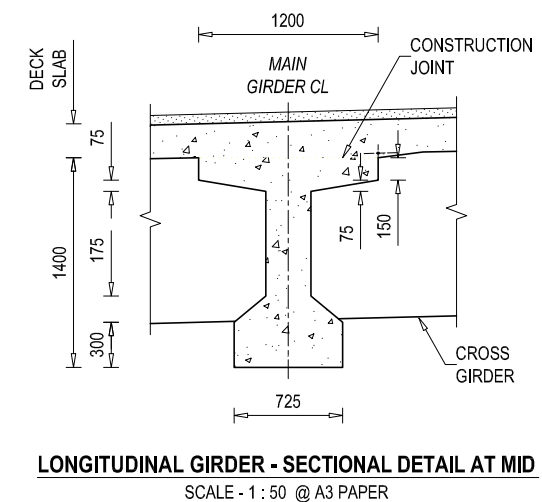
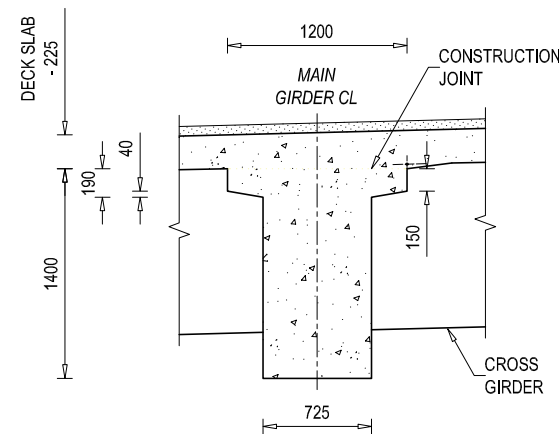
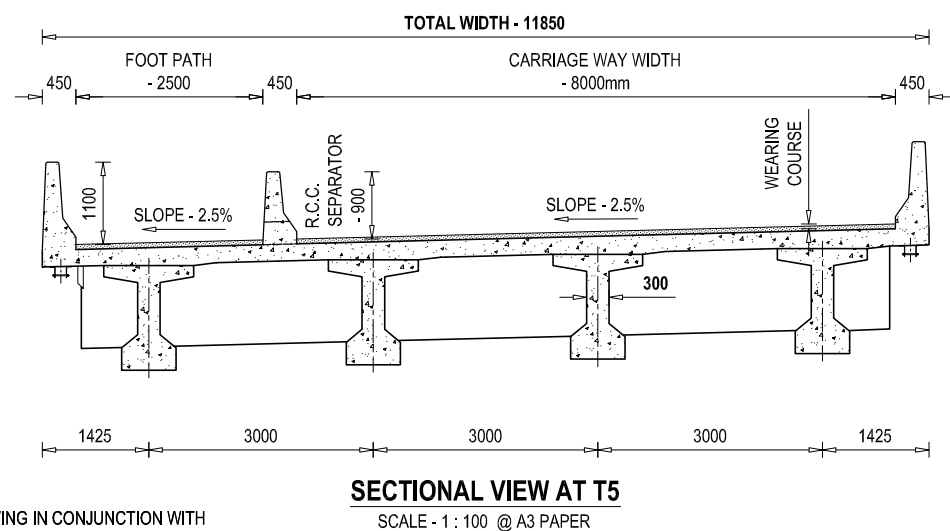
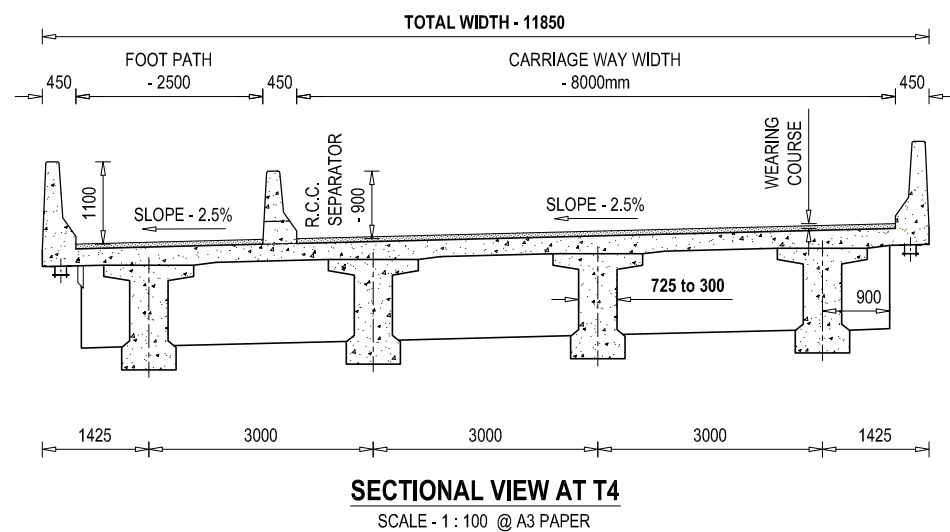
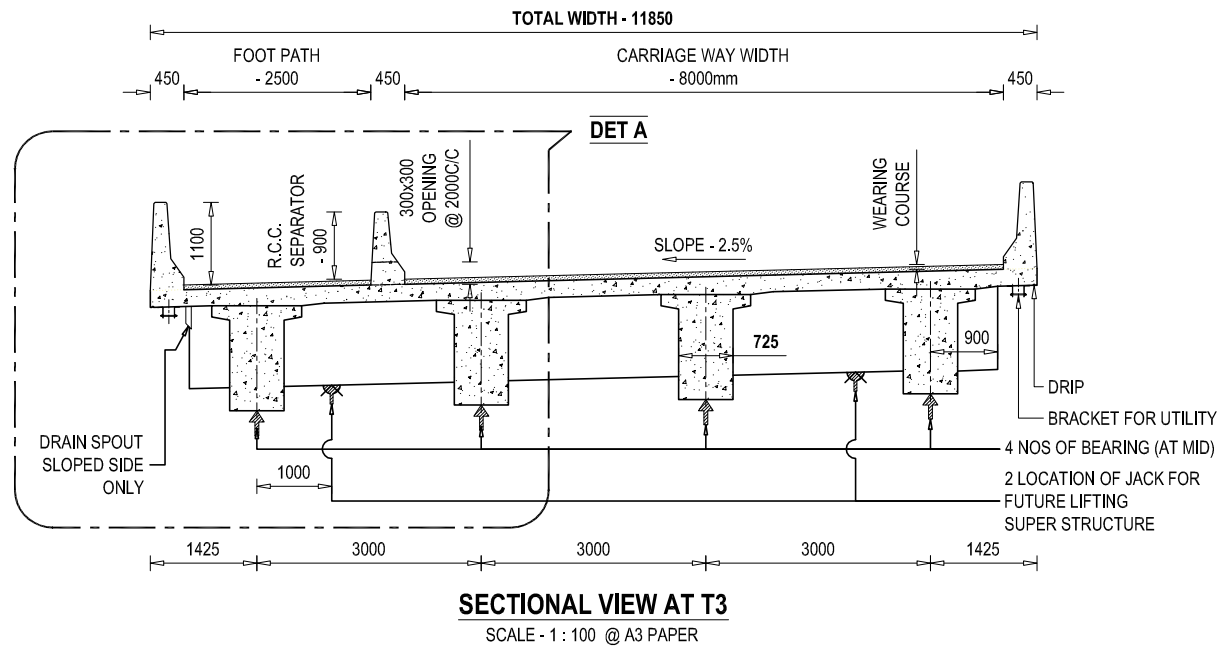


HALF ELEVATION SECTIONAL VIEW OF SUPERSTRUCTURE AT SEC T2

SCALE - 1 : 100 @ A3 PAPER

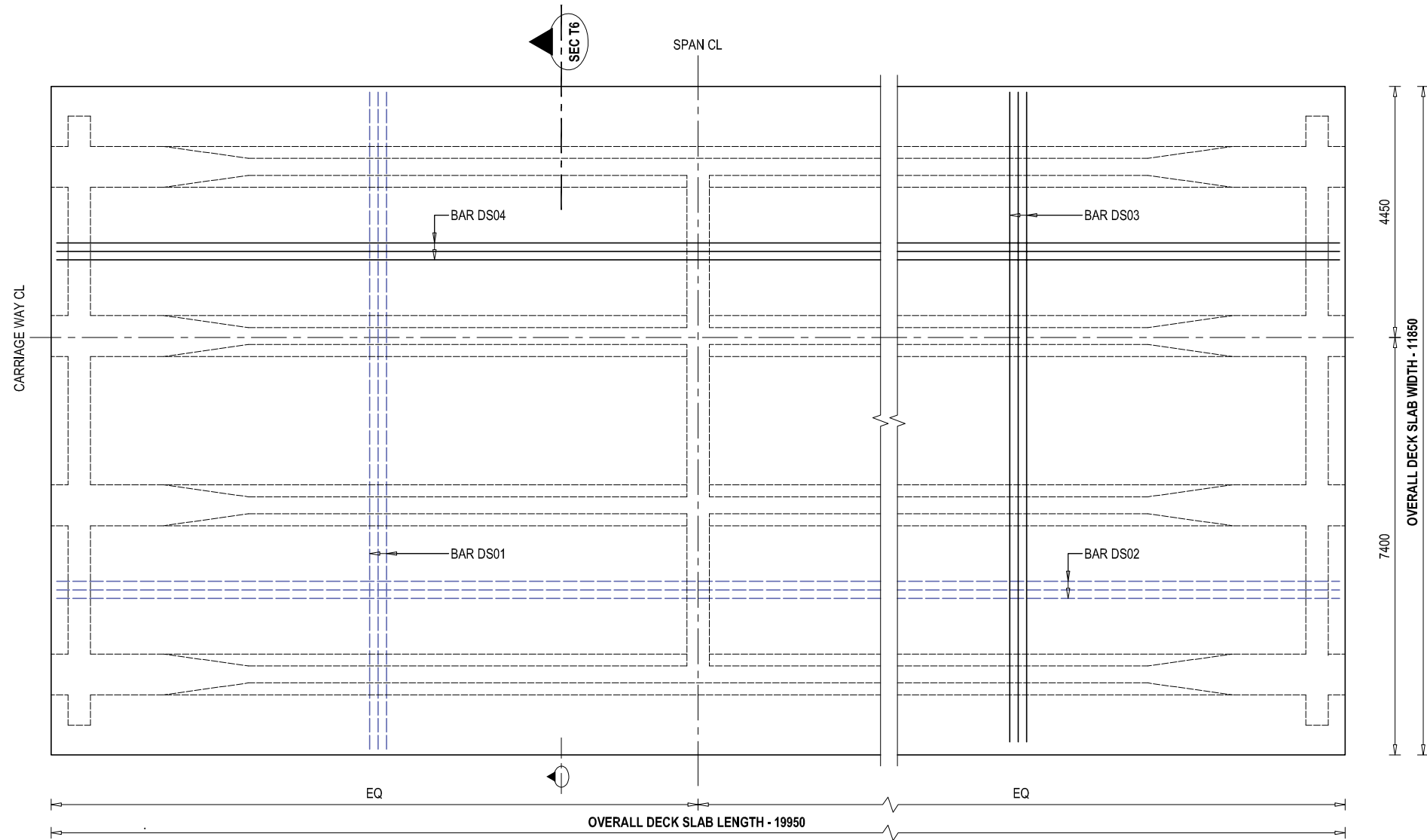
NOTE
READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/GODARI/DD-4

EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Mr. R.A.	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Patthaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingeniera Madrid, Spain  STUP Consultants Private Limited Kolkata, India In Association With Udaya Consultancy, Geocom International, Sundar Kirti Consultant and Rays Consultant Private Limited	Mr. R.A.		SUPER STRUCTURE DETAILS OF BRIDGE OVER RIVER GODARI	AS SHOWN	31.05.2023
			Checked By	Mr. S.M.			Drawing No. -
			Approved By	Mr. H.B.	Reference Drawings KDP/DPR/STR/BR/GODARI/DD-14	Chainage: 311+585	KDP/DPR/STR/BR/GODARI/DD-10 Sheet No. 1 / 2



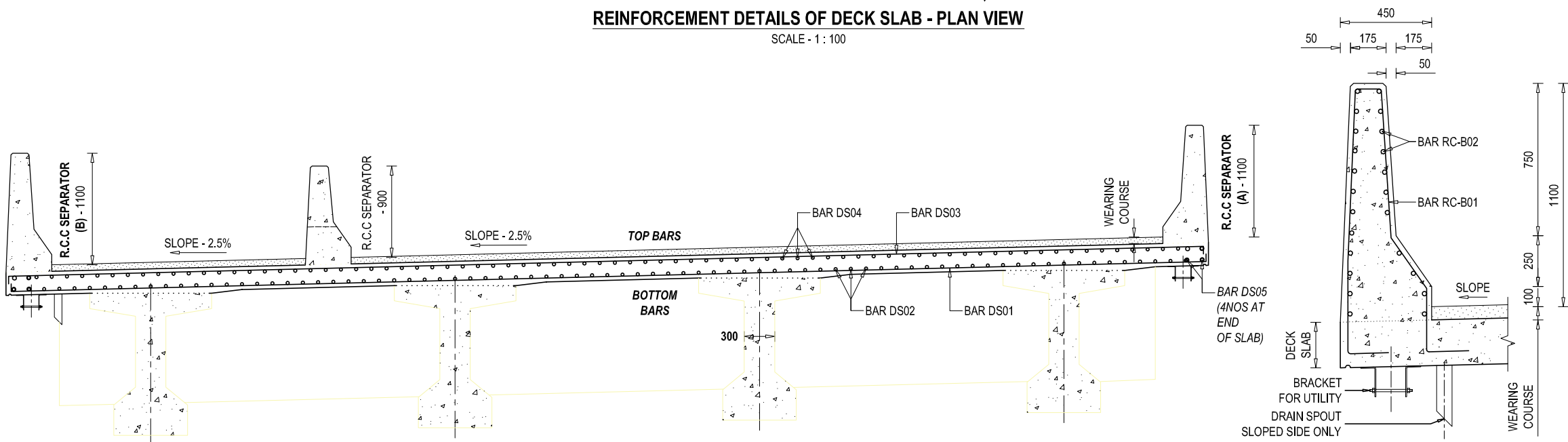
NOTE
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EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Mr. R.A.	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingeniera Madrid, Spain  STUP Consultants Private Limited Kolkatta, India In Association With Udaya Consultancy, Geocom International, Sundar Krti Consultant and Rays Consultant Private Limited	Mr. R.A.		SUPER STRUCTURE DETAILS OF BRIDGE OVER RIVER GODARI Reference Drawings KDP/DPR/STR/BR/GODARI/DD-14	AS SHOWN Chainage: 311+585	31.05.2023
			Checked By	Mr. S.M.			Drawing No.:-
			Approved By	Mr. H.B.			KDP/DPR/STR/BR/GODARI/DD-10
							Sheet No. 2 / 2



REINFORCEMENT DETAILS OF DECK SLAB - PLAN VIEW

SCALE - 1 : 100



REINFORCEMENT DETAILS OF DECK SLAB - SECTIONAL VIEW AT T6

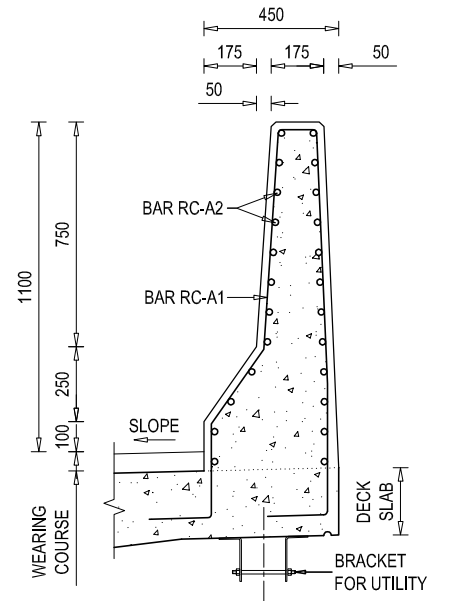
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LEGEND FOR REINFORCEMENT BAR

CODE FULL FORM

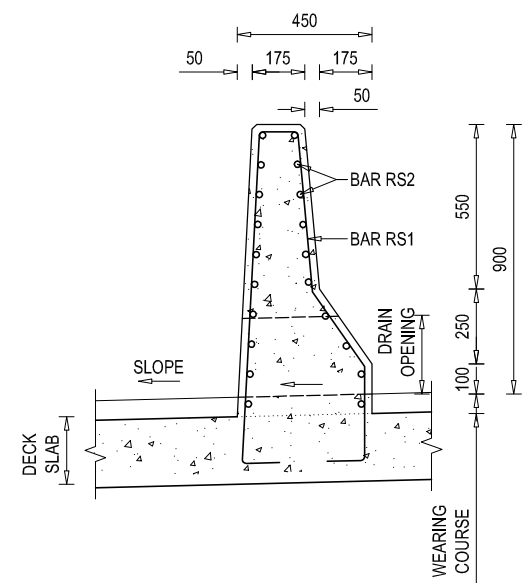
DS - DECK SLAB CG - CROSS GIRDER
RB - R.C.C BARRIER AS - APPROACH SLAB
RS - R.C.C SEPARATOR ST - STOPPER
MG - MAIN GIRDER ** - ***

TOP BAR OR
NEAR FACE REINFORCEMENT
BOTTOM BAR OR
FAR FACE REINFORCEMENT



REINFORCEMENT DETAILS OF R.C.C BARRIER (A)- SECTIONAL VIEW

SCALE - 1 : 25



REINFORCEMENT DETAILS OF R.C.C SEPARATOR - SECTIONAL VIEW

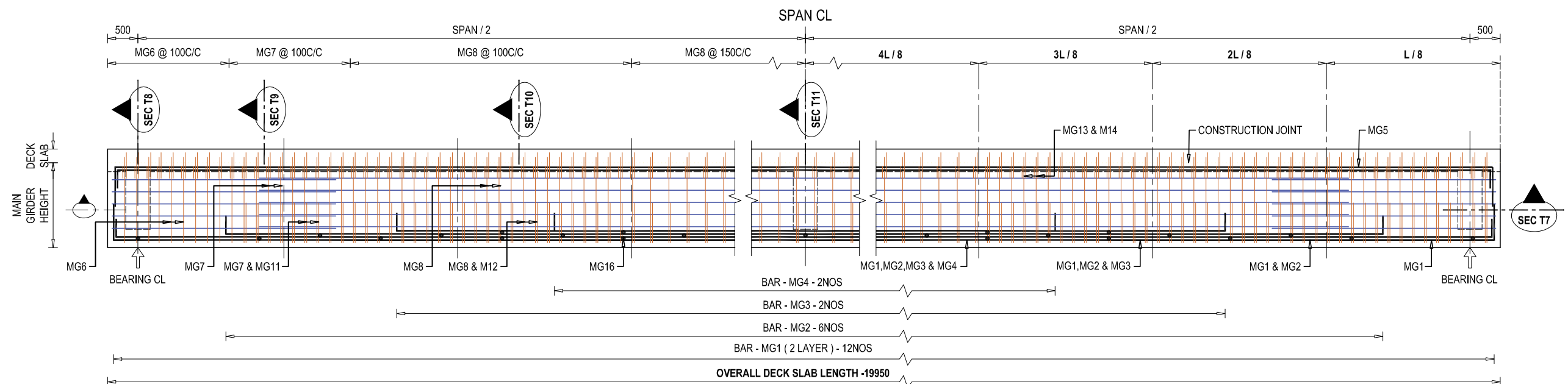
SCALE - 1 : 25

REINFORCEMENT DETAILS OF R.C.C BARRIER (B)- SECTIONAL VIEW

SCALE - 1 : 25

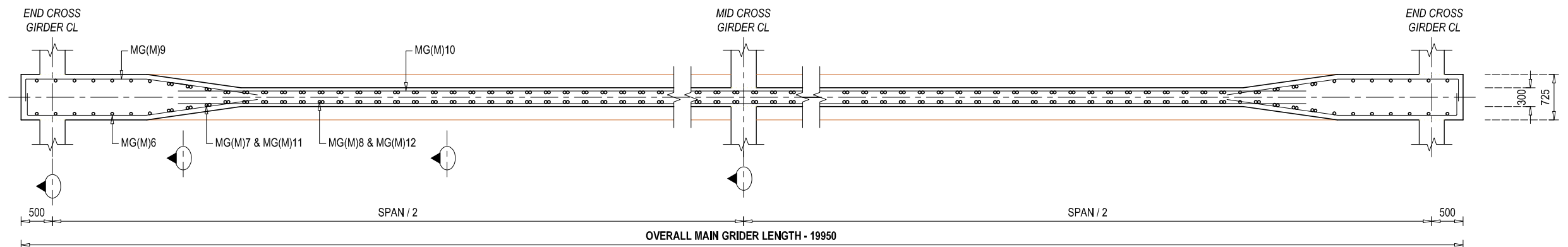
NOTE
READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/GODARI/DD-4

EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Mr. R.A.	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Patthaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingeniera Madrid, Spain  STUP Consultants Private Limited Kolkatta, India In Association With Udaya Consultancy, Geocom International, Sundar Kriti Consultant and Rays Consultant Private Limited	Checked By	Mr. S.M.	DECK SLAB DETAILS OF BRIDGE OVER RIVER GODARI	AS SHOWN	31.05.2023
			Approved By	Mr. H.B.	Reference Drawings KDP/DPR/STR/BR/GODARI/DD-14	Chainage:	Drawing No.:- KDP/DPR/STR/BR/GODARI/DD-11
						311+585	Sheet No. 1 / 1



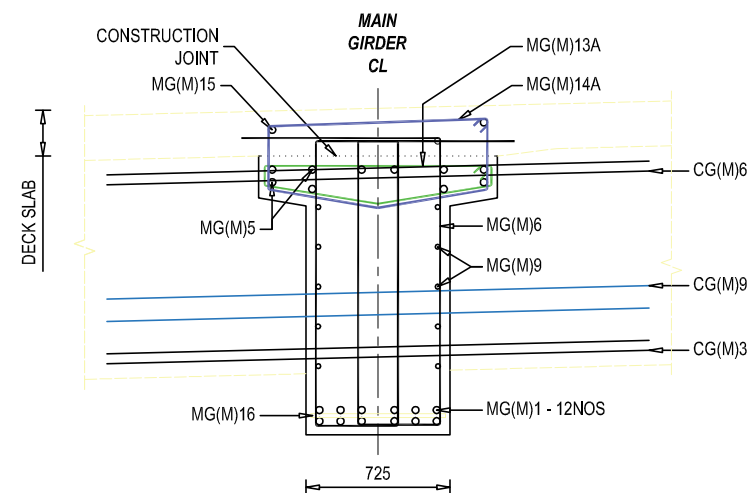
REINFORCEMENT DETAILS OF MAIN GIRDER - SECTIONAL ELEVATION VIEW

SCALE - 1 : 75



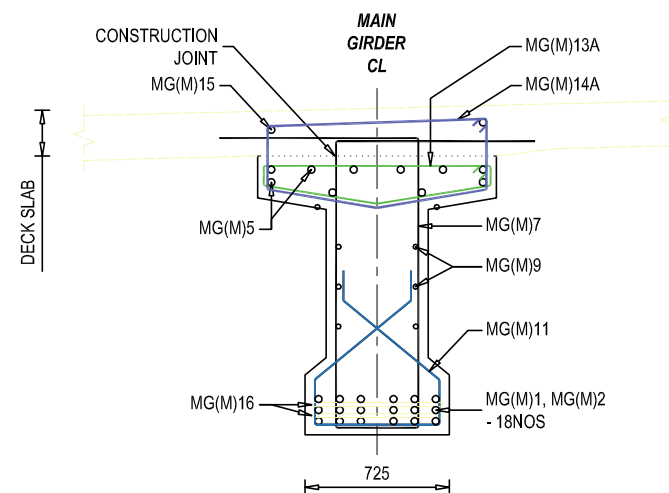
REINFORCEMENT DETAILS OF MAIN GIRDER (MID) - SECTIONAL PLAN VIEW AT T7(M)

SCALE - 1 : 75



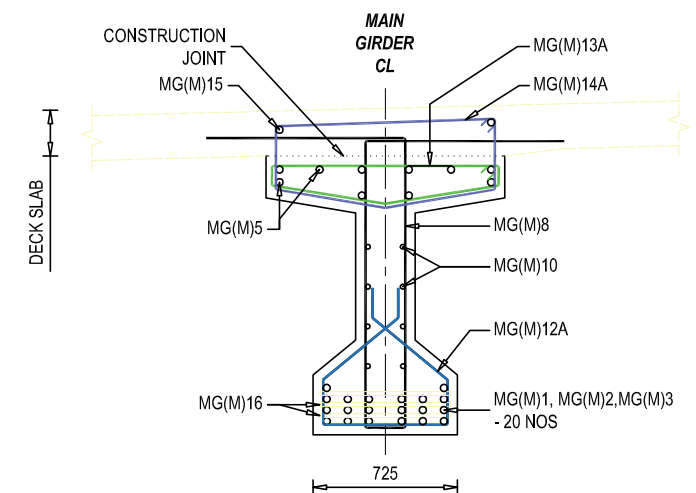
REINFORCEMENT DETAILS OF MAIN GIRDER SECTIONAL VIEW AT T8

SCALE - 1 : 50



REINFORCEMENT DETAILS OF MAIN GIRDER SECTIONAL VIEW AT T9

SCALE - 1 : 50

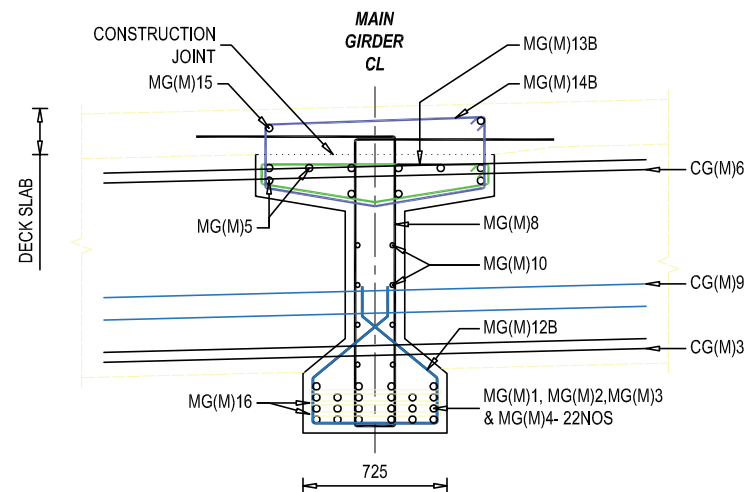


REINFORCEMENT DETAILS OF MAIN GIRDER SECTIONAL VIEW AT T10

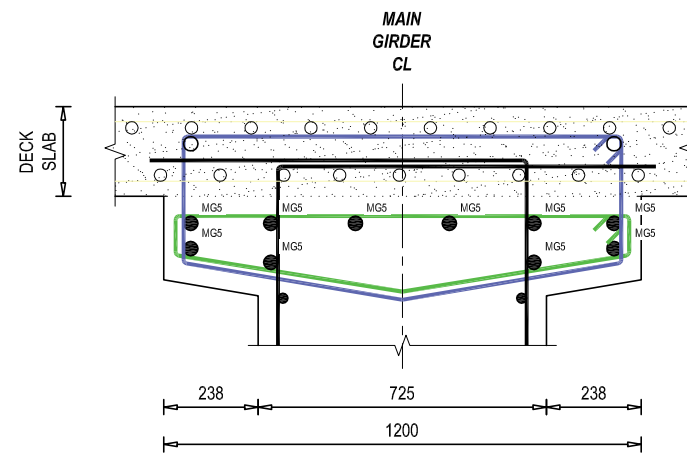
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NOTE
READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/GODARI/DD-4

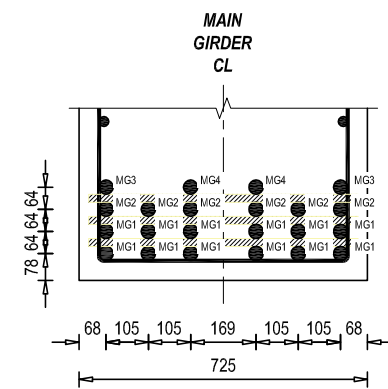
EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamal-Dhalkebar-Pathilaya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingenieria Madrid, Spain  STUP Consultants Private Limited Kolkata, India In Association With Udaya Consultancy, Geocom International, Sundar Kirti Consultant and Rays Consultant Private Limited	Mr. R.A. Nec.No. 6431 CIVIL 'N' Signature	MAIN GIRDER REINFORCEMENT DETAILS OF BRIDGE OVER RIVER GODARI Reference Drawings KDP/DPR/STR/BR/GODARI/DD-14	AS SHOWN Chainage: 311+585	31.05.2023
			Checked By Mr. S.M. Signature			Drawing No.- KDP/DPR/STR/BR/GODARI/DD-12
			Approved By Mr. H.B. Signature			Sheet No. 1 / 2



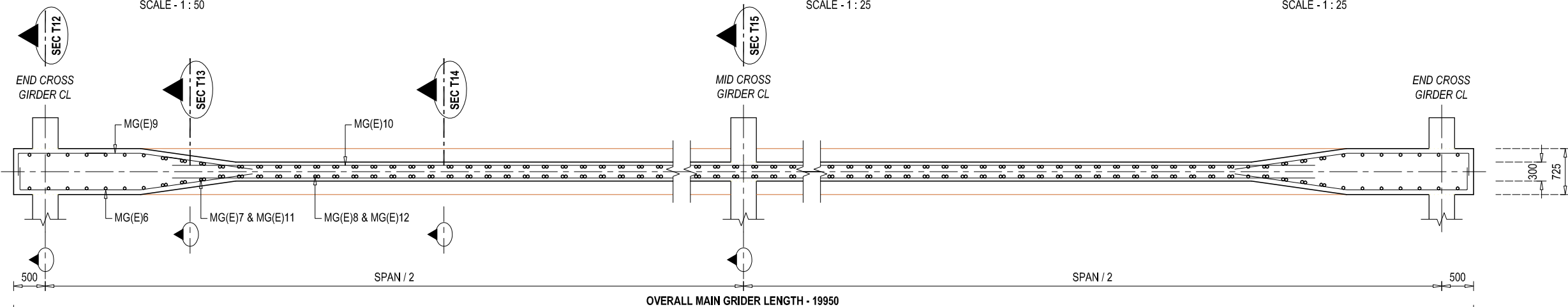
REINFORCEMENT DETAILS OF MAIN GIRDER
SECTIONAL VIEW AT T11
SCALE - 1 : 50



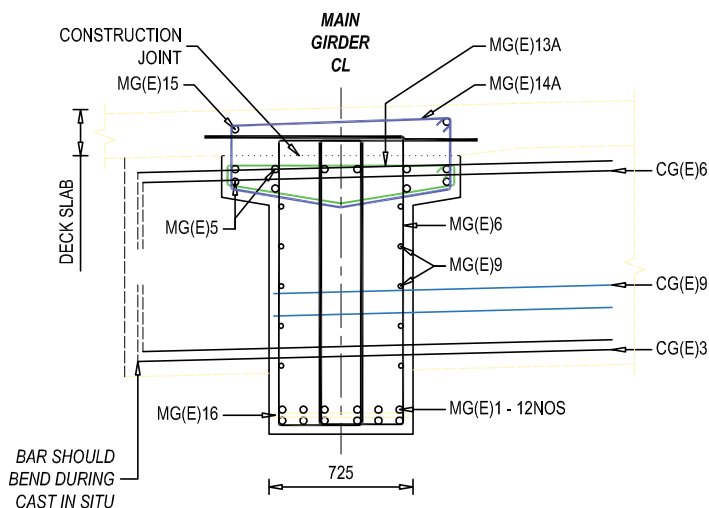
TOP BAR WEB REINFORCEMENT DETAILS
OF MAIN GIRDER
SCALE - 1 : 25



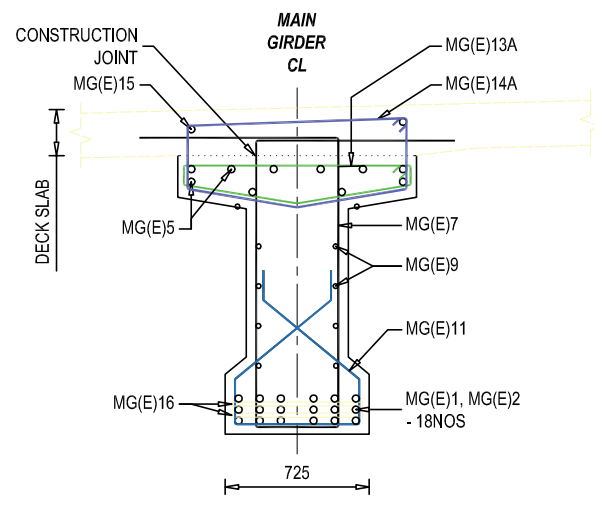
BOTTOM BAR WEB REINFORCEMENT DETAILS
OF MAIN GIRDER
SCALE - 1 : 25



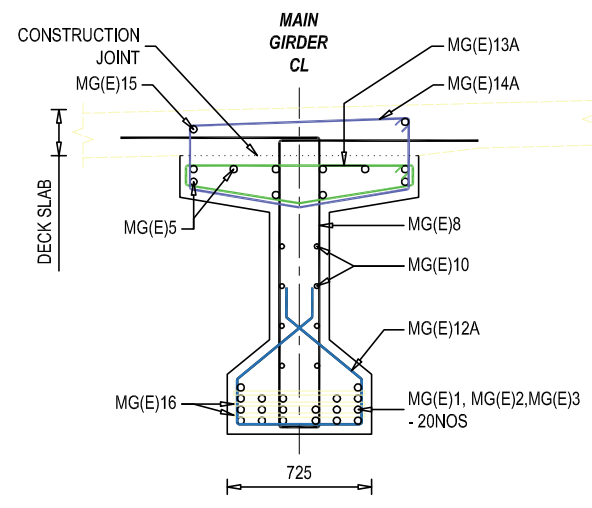
REINFORCEMENT DETAILS OF MAIN GIRDER (END) - SECTIONAL PLAN VIEW AT T7(E)
SCALE - 1 : 75



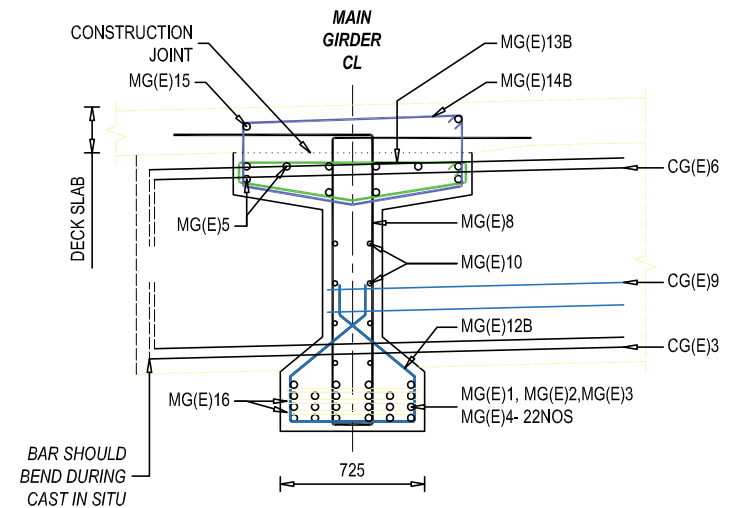
REINFORCEMENT DETAILS OF MAIN GIRDER
SECTIONAL VIEW AT T12
SCALE - 1 : 50



REINFORCEMENT DETAILS OF MAIN GIRDER
SECTIONAL VIEW AT T13
SCALE - 1 : 50



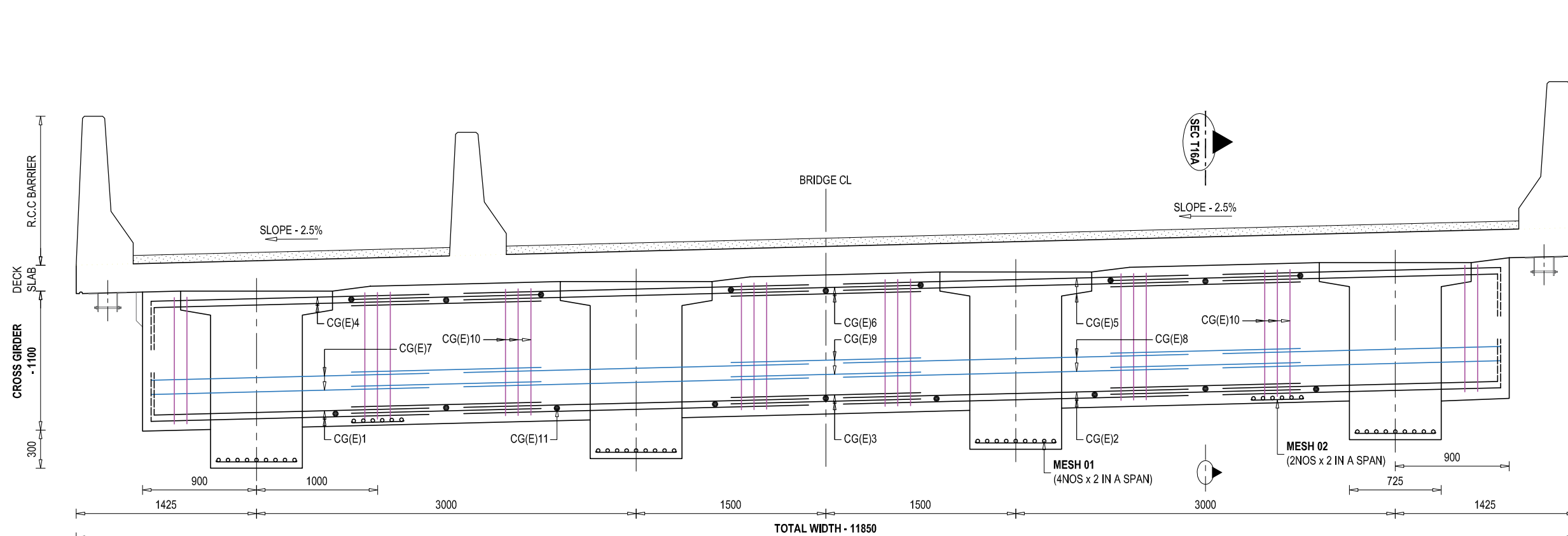
REINFORCEMENT DETAILS OF MAIN GIRDER
SECTIONAL VIEW AT T14
SCALE - 1 : 50



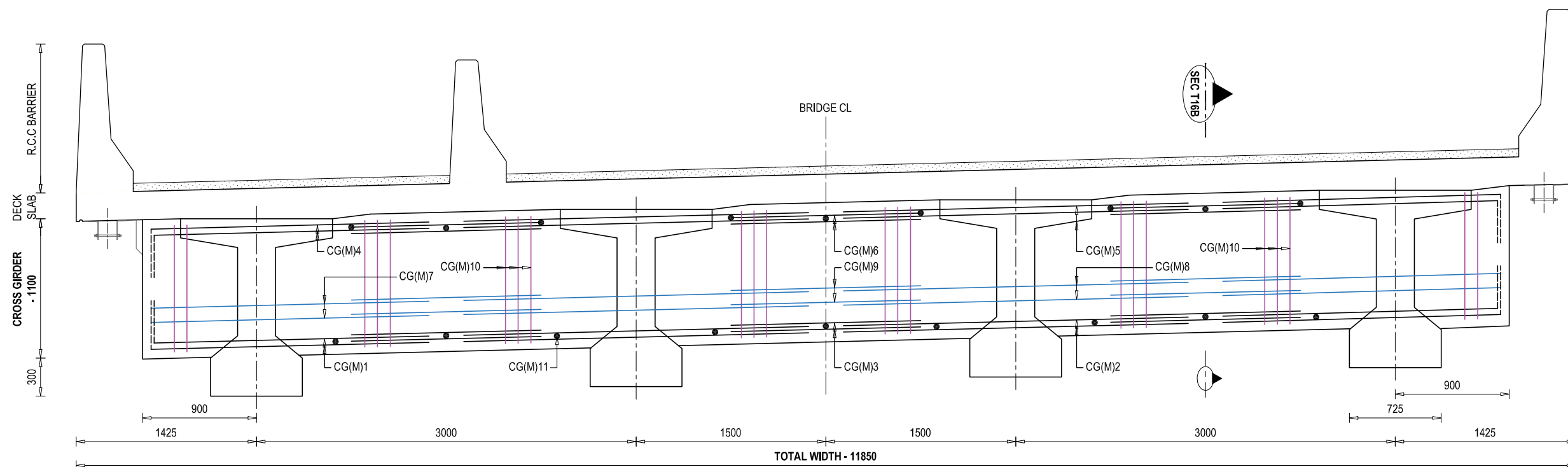
REINFORCEMENT DETAILS OF MAIN GIRDER
SECTIONAL VIEW AT T15
SCALE - 1 : 50

NOTE
READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/GODARI/DD-4

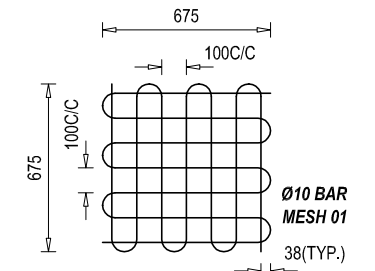
EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Drawing Name	Scale:	Date:
Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamal-Dhalkebar-Pathalaya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of EPTISA Servicios De Ingenieria Madrid, Spain STUP Consultants Private Limited Kolkatta, India In Association With Udaya Consultancy, Geocom International, Sundar Kriti Consultant and Rays Consultant Private Limited	Mr. R.A. Nec.No. 6431 CIVIL 'A' Mr. S.M. Mr. H.B.	MAIN GIRDER REINFORCEMENT DETAILS OF BRIDGE OVER RIVER GODARI Reference Drawings KDP/DPR/STR/BR/GODARI/DD-14	AS SHOWN Chainage: 311+585	31.05.2023
			Checked By			Drawing No.- KDP/DPR/STR/BR/GODARI/DD-12
			Approved By			Sheet No. 2 / 2



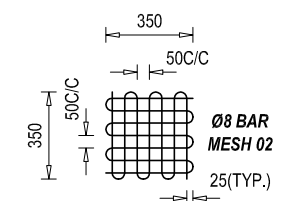
REINFORCEMENT DETAILS OF END CROSS GIRDER
SCALE - 1 : 50



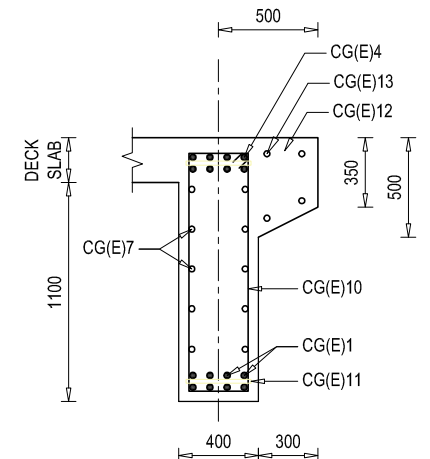
REINFORCEMENT DETAILS OF MID CROSS GIRDER
SCALE - 1 : 50



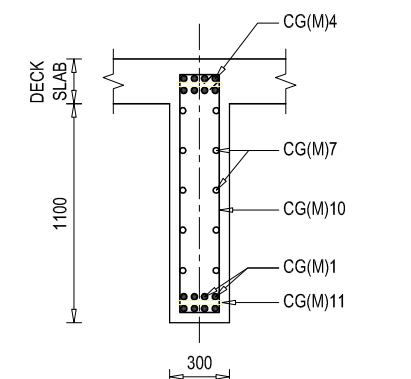
REINFORCEMENT DETAILS OF BEARING MESH
SCALE - 1 : 50



REINFORCEMENT DETAILS OF LIFTING MESH
SCALE - 1 : 50



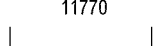
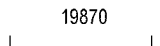
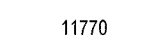
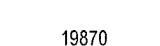
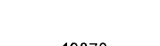
SECTIONAL REINFORCEMENT DETAILS OF END CROSS GIRDER - SEC T16A
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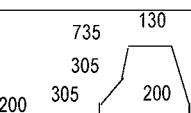
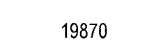


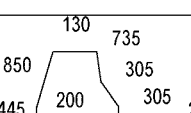
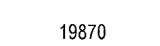
SECTIONAL REINFORCEMENT DETAILS OF MID CROSS GIRDER - SEC T16B
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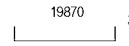
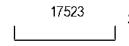
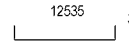
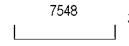
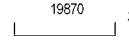
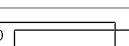
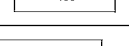
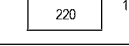
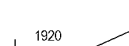
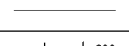
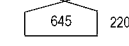
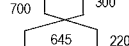
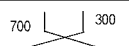
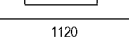
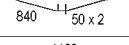
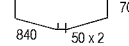
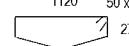
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READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/GODARI/DD-4

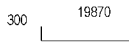
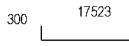
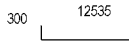
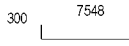
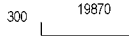
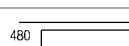
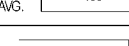
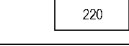
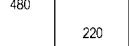
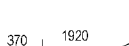
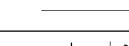
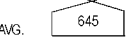
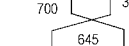
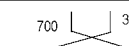
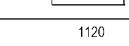
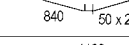
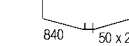
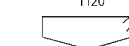
EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Mr. R.A.	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamal-Dhalkebar-Pathalaya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of EPTISA Servicios De Ingenieria Madrid, Spain STUP Consultants Private Limited Kolkatta, India In Association With Udaya Consultancy, Geocom International, Sundar Kirti Consultant and Rays Consultant Private Limited	Checked By	Mr. S.M.	CROSS GIRDER REINFORCEMENT DETAILS OF BRIDGE OVER RIVER GODARI	AS SHOWN	31.05.2023
			Approved By	Mr. H.B.	Reference Drawings KDP/DPR/STR/BR/GODARI/DD-14	Chainage: 311+585	Drawing No.- KDP/DPR/STR/BR/GODARI/DD-13
							Sheet No. 1 / 1

BAR BENDING SCHEDULE OF DECK SLAB (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	DS01	150  150	16	150	12.070	134	1.580	2555.86
2	DS02	150  150	10	150	20.170	76	0.617	946.25
3	DS03	150  150	16	150	12.070	134	1.580	2555.86
5	DS04	150  150	10	150	20.170	76	0.617	946.25
6	DS05	 19870	16		19.870	8	1.580	251.20
TOTAL (KG) :								7255.41

BAR BENDING SCHEDULE OF R.C.C BARRIER (A) (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	RC-A1	 16	16	150	3.170	134	1.580	671.26
2	RC-A2	150  150	10	150	20.170	20	0.617	249.01
TOTAL (KG) :								920.27

BAR BENDING SCHEDULE OF R.C.C BARRIER (B) (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	RC-B1	 16	16	150	3.170	134	1.580	671.26
2	RC-B2	150  150	10	150	20.170	20	0.617	249.01
TOTAL (KG) :								920.27

BAR BENDING SCHEDULE OF END MAIN GIRDER (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	MG(E)1	300  300	32		20.470	12	6.321	1552.69
2	MG(E)2	300  300	32		18.123	6	6.321	687.33
3	MG(E)3	300  300	32		13.135	2	6.321	166.05
4	MG(E)4	300  300	32		8.148	2	6.321	103.01
5	MG(E)5	300  300	12		20.470	10	0.889	181.96
6	MG(E)6	 4 LEGGED	12	100	9.260	42	0.889	345.71
7	MG(E)7	 AVG.	12	100	5.125	32	0.889	145.78
8	MG(E)8A		12	100	4.480	81	0.889	322.56
9	MG(E)8B		12	150	4.480	35	0.889	139.38
10	MG(E)9	370 	12	200	4.290	28	0.889	106.77
11	MG(E)10		12	200	16.950	14	0.889	210.93
12	MG(E)11	 AVG.	12	100	2.785	32	0.889	79.22
13	MG(E)12A		12	150	3.085	81	0.889	222.12
14	MG(E)12B		12	150	3.085	35	0.889	95.98
15	MG(E)13A		12	100	3.040	151	0.889	408.04
16	MG(E)13B		12	150	3.040	35	0.889	94.58
17	MG(E)14A		12	100	3.440	151	0.889	461.72
18	MG14B		12	150	3.440	35	0.889	107.02
19	MG(E)15		12		19.870	2	0.889	35.32
19	MG(E)16		32	1500	0.645	42	6.321	171.24
TOTAL (KG) :								5637.40

BAR BENDING SCHEDULE OF MID MAIN GIRDER (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	MG(M)1	300  300	32		20.470	12	6.321	1552.69
2	MG(M)2	300  300	32		18.123	6	6.321	687.33
3	MG(M)3	300  300	32		13.135	2	6.321	166.05
4	MG(M)4	300  300	32		8.148	2	6.321	103.01
5	MG(M)5	300  300	12		20.470	10	0.889	181.96
6	MG(M)6	 4 LEGGED	12	100	9.260	42	0.889	345.71
7	MG(M)7	 AVG.	12	100	5.125	32	0.889	145.78
8	MG(M)8A		12	100	4.480	81	0.889	322.56
9	MG(M)8B		12	150	4.480	35	0.889	139.38
10	MG(M)9	370 	12	200	4.290	28	0.889	106.77
11	MG(M)10		12	200	16.950	14	0.889	210.93
12	MG(M)11	 AVG.	12	100	2.785	32	0.889	79.22
13	MG(M)12A		12	150	3.085	81	0.889	222.12
14	MG(M)12B		12	150	3.085	35	0.889	95.98
15	MG(M)13A		12	100	3.040	151	0.889	408.04
16	MG(M)13B		12	150	3.040	35	0.889	94.58
17	MG(M)14A		12	100	3.440	151	0.889	461.72
18	MG14B		12	150	3.440	35	0.889	107.02
19	MG(M)15		12		19.870	2	0.889	35.32
19	MG(M)16		32	1500	0.645	42	6.321	171.24
TOTAL (KG) :								5637.40

EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Drawing Name		Scale:		Date:			
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division		Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlajaya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of		Designed By	Mr. R.A.	 Signature	SUPER STRUCTURE BAR BENDING SCHEDULE OF BRIDGE OVER RIVER GODARI	AS SHOWN	31.05.2023			
			 EPTISA Servicios De Ingenieria Madrid, Spain  STUP Consultants Private Limited Kolkata, India		Checked By	Nec.No. 6431 CIVIL 'N' Mr. S.M.				 Signature	Reference Drawings	Chainage:	KDP/DPR/STR/BR/GODARI/DD-14
			In Association With Udaya Consultancy, Geocom International, Sundar Kirti Consultant and Rays Consultant Private Limited		Approved By	Mr. H.B.							

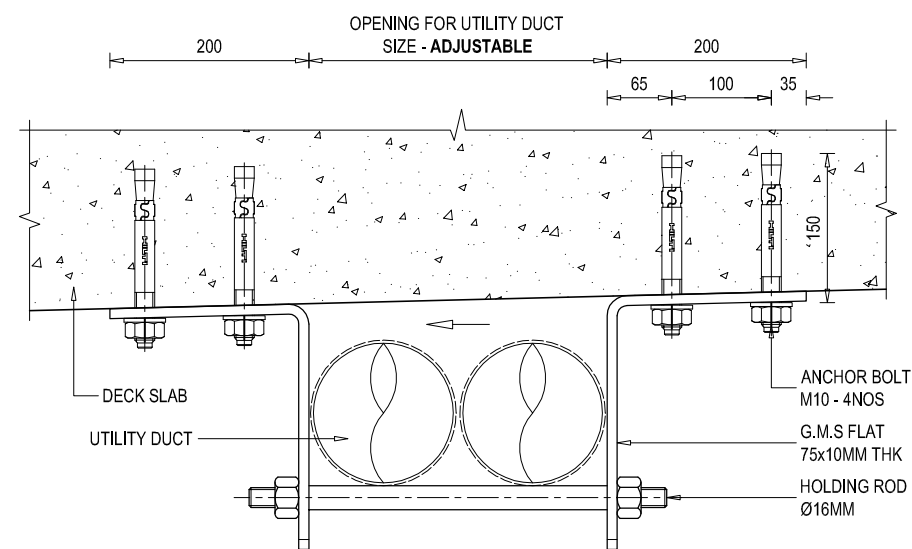
BAR BENDING SCHEDULE OF MESH (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	MESH 01	675 675 @ 100	10		9.450	8	0.617	46.67
2	MESH 02	350 350 @ 50	8		4.900	4	0.395	7.74
TOTAL (KG) :								54.41

BAR BENDING SCHEDULE OF R.C.C SEPARATOR (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	RS1	130 535 1110 150 305 315	16	150	2.695	134	1.580	570.67
2	RS2	150 19870 150	10	150	20.170	17	0.617	211.66
TOTAL (KG) :								782.34

BAR BENDING SCHEDULE OF END CROSS GIRDER (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	CG(E)1	300 1825	20		2.125	8	2.469	41.98
2	CG(E)2	2625	20		2.625	8	2.469	51.85
3	CG(E)3	1675	20		1.675	8	2.469	33.09
4	CG(E)4	300 1825	20		2.125	8	2.469	41.98
5	CG(E)5	2625	20		2.625	8	2.469	51.85
6	CG(E)6	1675	20		1.675	8	2.469	33.09
7	CG(E)7	1825	12	150	1.825	8	0.889	12.98
8	CG(E)8	2625	12	150	2.625	8	0.889	18.67
9	CG(E)9	1675	12	150	1.675	8	0.889	11.91
10	CG(E)10	50 x 2 320 1220	12	200	1.640	39	0.889	56.85
11	CG(E)11	320	20	1000	0.320	18	2.469	14.22
12	CG(E)12	800 260 300 390	16	150	1.750	79	1.580	218.47
13	CG(E)13	11770	12		11.770	6	0.889	62.77
TOTAL (KG) :								649.70
TOTAL NOS OF CROSS GIRDER :								2.00
TOTAL WEIGHT (KG) :								1299.40

BAR BENDING SCHEDULE OF MID CROSS GIRDER (1SPAN)								
S.No.	BAR MARK	DESCRIPTION OF BAR	BAR DIA.(MM)	SPACING (MM)	BAR LENGTH (M)	No. OF BARS	UNIT WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
1	CG(M)1	300 1825	20		1.920	8	2.469	37.93
2	CG(M)2	2625	20		2.945	8	2.469	58.17
3	CG(M)3	1675	20		1.995	8	2.469	39.41
4	CG(M)4	300 1825	20		1.920	8	2.469	37.93
5	CG(M)5	2625	20		2.625	8	2.469	51.85
6	CG(M)6	1675	20		1.675	8	2.469	33.09
7	CG(M)7	1825	12	150	1.620	8	0.889	11.52
8	CG(M)8	2625	12	150	2.625	8	0.889	18.67
9	CG(M)9	1675	12	150	1.675	8	0.889	11.91
10	CG(M)10	50 x 2 320 1220	12	200	1.640	39	0.889	56.85
11	CG(M)11	320	20	1000	0.320	18	2.469	14.22
TOTAL (KG) :								371.54

EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Drawing Name		Scale:		Date:	
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of		Designed By	Mr. R.A.		SUPER STRUCTURE BAR BENDING SCHEDULE OF BRIDGE OVER RIVER GODARI	AS SHOWN	31.05.2023		
		 EPTISA Servicios De Ingeniera Madrid, Spain	 STUP Consultants Private Limited Kolkata, India	Checked By	Mr. S.M.						
		In Association With Udaya Consultancy, Geocom International, Sundar Kriti Consultant and Rays Consultant Private Limited		Approved By	Mr. H.B.		Reference Drawings	-	Chainage:	311+585	Drawing No.- KDP/DPR/STR/BR/GODARI/DD-14

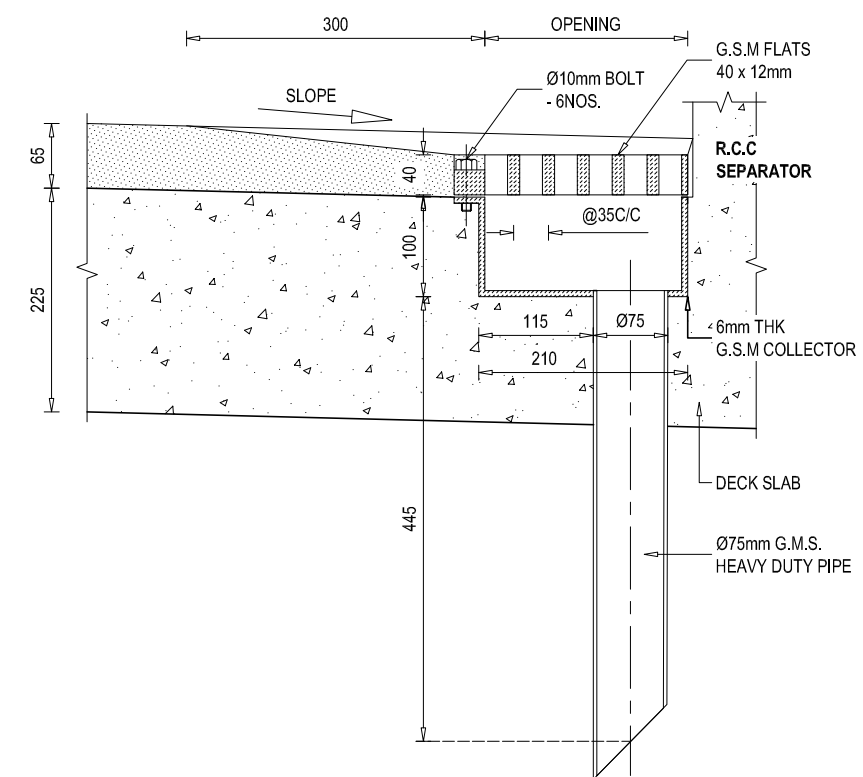


SECTIONAL ELEVATION VIEW AT SEC T17

Technical drawing of a rectangular structure, likely a cross-section of a building component. The drawing includes the following details:

- Dimensions:**
 - Overall width: 235 (labeled "SIZE - 235")
 - Overall height: 250 (labeled "SIZE - 250")
 - Internal width of the central section: 140 (labeled "140C/C")
- Labels:**
 - "SEC T19" is written inside a circle on the left side.
 - "SIZE - 235" is written above the central section.
 - "SIZE - 250" is written to the left of the central section.
 - "140C/C" is written below the central section.
- Structural Features:**
 - The central section is filled with a stippled pattern.
 - There are four circular elements (possibly bolts or fasteners) located at the corners of the central section.
 - There are four circular elements (possibly bolts or fasteners) located at the corners of the overall structure.
 - There are four circular elements (possibly bolts or fasteners) located at the corners of the central section.
 - There are four circular elements (possibly bolts or fasteners) located at the corners of the overall structure.
- Orientation:**
 - A north arrow is located in the top right corner, pointing towards the top right.
 - A north arrow is located in the bottom left corner, pointing towards the bottom left.

PLAN VIEW



SECTIONAL ELEVATION VIEW AT SEC T19

SECTIONAL ELEVATION VIEW AT SEC T18

FRONT VIEW

EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS			Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of	Designed By	Mr. R.A. Nec.No. 6431 CIVIL 'X'	MISCELLANEOUS DETAILS OF BRIDGE OVER RIVER GODARI	AS SHOWN	21.04.2023
		 EPTISA Servicios De Ingenieria Madrid, Spain  STUP Consultants Private Limited Kolkatta, India	Checked By	Mr. S.M.	Reference Drawings	Chainage:	
		In Association With	Approved By	Mr. H.B.	311+585	Sheet No.1 / 2	



SCALE - 1 : 10 @ A3 PAPER



- SEAL TYPE

SCALE - NON



REINFORCEMENT DETAILS AT APPROACH SLAB

SCALE - 1 : 100 @ A3 PAPER



SCALE - 1 : 40 @ A3 PAPER

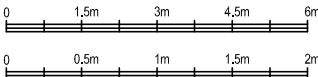


SCALE - 1 : 40 @ A3 PAPER

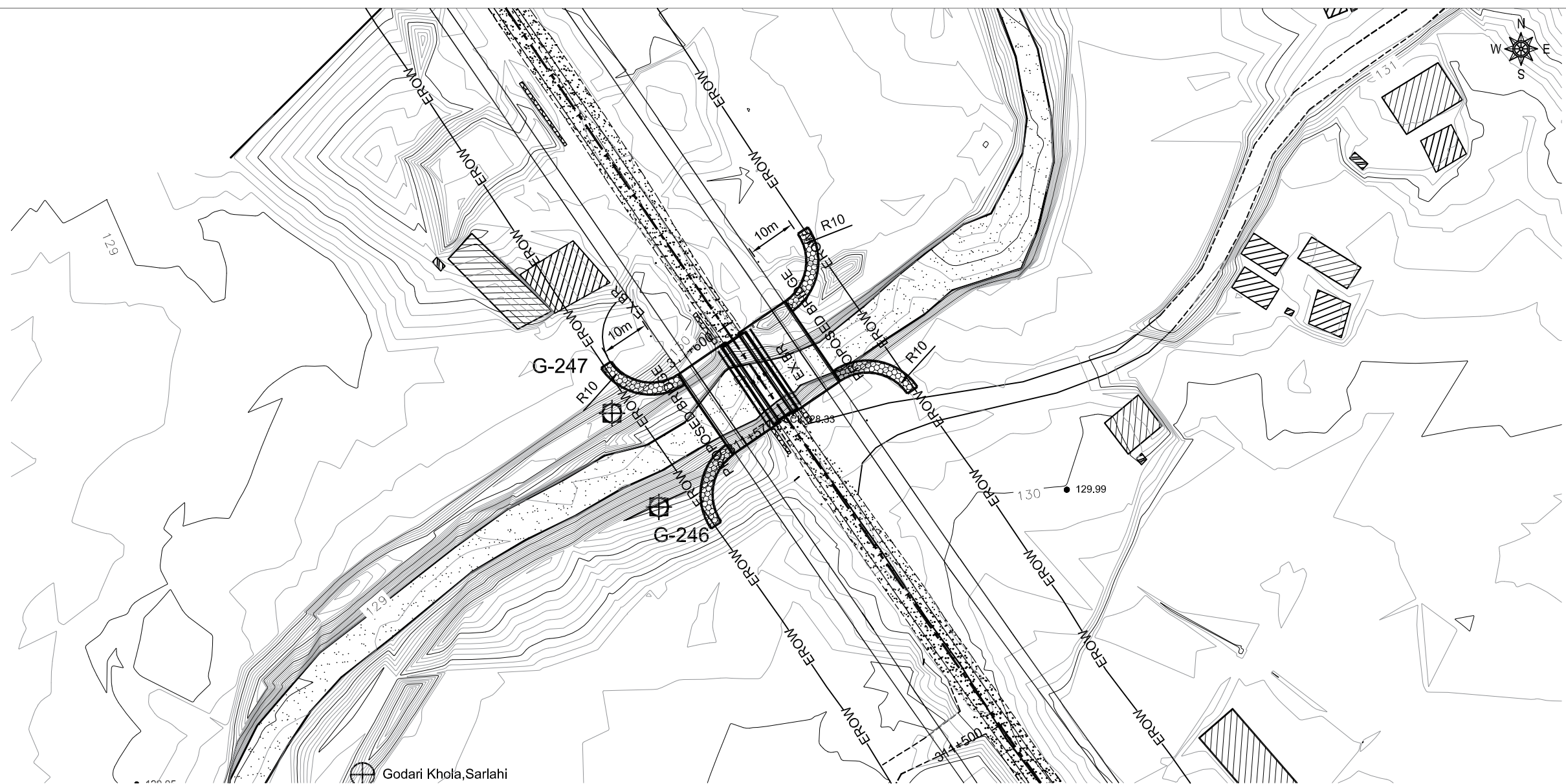


SCALE - NON

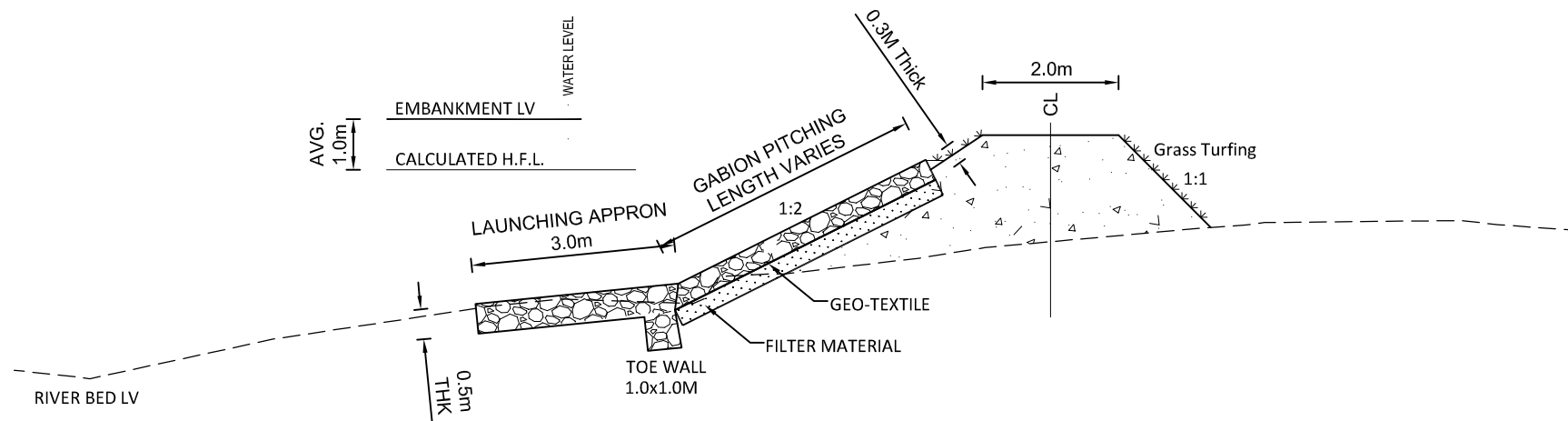
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	DESIGN CONSULTANTS		Designed By	Mr. R.A.	 Signature	Drawing Name MISCELLANEOUS DETAILS OF BRIDGE OVER RIVER GODARI	Scale: AS SHOWN	Date: 21.04.2023		
		Joint Venture of			Nec.No. 6431 CIVIL/IC						
		 EPTISA Servicios De Ingenieria Madrid, Spain	 STUP Consultants Private Limited Kolkatta, India		Checked By					Mr. S.M.	 Signature
		In Association With Udaya Consultancy, Geocom International, Sundar Kriti Consultant and Rays Consultant Private Limited			Approved By					Mr. H.B.	
				Reference Drawings		Chainage:	311+585	Drawing No.- KDP/DPR/STR/BR/GODARI/DD-15			
									Sheet No. 2/2		



EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Designed By	Mr. R.A.	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhakkebar-Pathaliya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of		Nec.No. 6431 CIVIL 'X'			Signature			
		 EPTISA Servicios De Ingenieria Madrid, Spain	 STUP Consultants Private Limited Kolkata, India	Checked By	Mr. S.M.	Signature	Reference Drawings	Chainage:		
		In Association With Udaya Consultancy, Geocom International, Sundar Krti Consultant and Rays Consultant Private Limited		Approved By	Mr. H.B.	Signature			311+585	Sheet No. 1 / 1

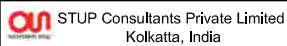


TOPOGRAPHIC MAP



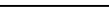
SECTION OF EMBANKMENT

SCALE - 1x : 5x

EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingenieria Madrid, Spain  STUP Consultants Private Limited Kolkatta, India In Association With Udaya Consultancy, Geocom International, Sundar Kirti Consultant and Rays Consultant Private Limited	Mr. R.A. Nec.No. 6431 CIVIL 'A'	RIVER TRAINING WORKS OF BRIDGE OVER RIVER GODARI	1:1000	21.04.2023
			Checked By Mr. S.M.	Reference Drawings	Chainage: 311+585	Drawing No.- KDP/DPR/STR/BR/GODARI/DD- 17
			Approved By Mr. H.B.			Sheet No. 1/1

Bearing Design Data for 20m Span and 11.85m width

Load Condition	Items	Under	On each Neoprene Bearing	Unit
Under No Live Load	V	NO EQ.	46.28	Ton
		EQ.	53.22	Ton
	H _L	NO EQ.	-	Ton
		EQ.	10.41	Ton
	H _T	NO EQ.	-	Ton
		EQ.	10.41	Ton
	θ	NO EQ.	0.00266	radian
		EQ.	0.00306	radian
Δ		12.4	mm	
Under Maximum Live Load	V	NO EQ.	84.85	Ton
		EQ.	92.95	Ton
	H _L	NO EQ.	-	Ton
		EQ.	0.00	Ton
	H _T	NO EQ.	-	Ton
		EQ.	0.00	Ton
	θ	NO EQ.	0.0040425	radian
		EQ.	0.00465	radian
Δ		20.80	mm	

EMPLOYER		PROJECT NAME		DESIGN CONSULTANTS		Designed By	Mr. R.A.		Drawing Name BEARING DESIGN DATA OF BRIDGE OVER RIVER GODARI	Scale: 1:1000	Date: 21.04.2023
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathalaya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of		ep4saEPTISA Servicios De Ingenieria Madrid, Spain	onSTUP Consultants Private Limited Kolkatta, India		Checked By				
		In Association With				Udaya Consultancy, Geocom International, Sundar Krti Consultant and Rays Consultant Private Limited		Approved By	Mr. H.B.		
		Reference Drawings		Chainage: 311+585	Drawing No.- KDP/DPR/STR/BR/GODARI/DD- 18		Sheet No. 1/1				